Reference materials 2017

Steel

Steel reference materials catalogue

LGC Quality
ISO 9001
ISO/IEC 17025
ISO Guide 34

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Top Sellers

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Ce	Mg	Ag	As	B
IARM-35L-X	Carbon, low alloy steel, 1¼Cr ½Mo / UNS K11572	(0.119)	(0.679)	(0.54)	(0.007)	(0.0139)	(1.35)	(0.070)	(0.61)	(0.124)	(0.0037)	(0.0068)	(0.017)		(0.002)		(0.004)	(0.0004)
SUS-RE12+	Pure iron, SUS	<0.003	<0.003	<0.01	<0.001	<0.002	<0.002	<0.0015	<0.001	<0.001	<0.001	<0.001	<0.002				<0.001	<0.001
SUS-RN19+	Low alloy steel	0.85	1	1.75	0.1	0.07	3.14	3.63	1	0.38	0.6	>0.7	0.37				0.05	<0.01
NIST-1766	Low alloy steel	0.015	0.010	0.067	0.002	0.0024	0.024	0.021	0.0035	0.015	0.009	0.002	0.012			0.0005	0.0035	0.00012
SUS-RH18+	Steel, high alloyed SUS (HSS)	1.29	0.37	0.32	0.03	0.02	4.22	0.27	3.15	0.09	3.1	10.74	0.018					
SUS-RH31+	Steel, high alloyed, SUS (INOX)	0.03	0.6	1.1	0.02	0.01	17.04	19.2	2	2.1	0.04	0.08	<0.01				<0.001	
IARM-5I-X	Stainless Steel, AISI 316 / UNS S31600	0.049	0.435	1.443	0.0279	0.033	16.67	10.04	2.027	0.487	0.064	0.185	0.004				0.006	0.0006
ECRM-D 191-2	Dynamo steel, material number: 1.0812 - chips	0.0043	3.267	0.1334	0.0087	0.0029	0.0314	0.0224	0.002	0.0165			0.985				0.0018	
SUS-RH12+	Steel, high alloyed, SUS	0.4	0.37	16.76	0.04	<0.01	3.94	0.68	0.23	0.09		<0.01	<0.01				<0.01	
IRSID-1670	Low Carbon Steel ø37x30mm	0.0011	0.0046	0.3981	0.0128	0.0075	0.0174	0.0142	0.0009	0.0134	(0.0005)	0.0018	0.0479				0.0018	0.0007
IARM-2H-X	Stainless Steel, AISI 304 / UNS S30400	0.05	0.248	1.86	0.032	0.0278	18.28	8.23	0.264	0.437	0.066	0.13	0.0034	(<0.005)	(<0.025)		0.007	0.0005
IARM-162D-G	Stainless Steel, AISI 304L / UNS S30403	0.024	0.57	1.82	0.0296	0.0271	18.31	8.15	0.573	0.52	0.063	0.074	0.0026		(0.0001)		0.0072	0.0027
IARM-2H-G	Stainless Steel, AISI 304 / UNS S30400	0.05	0.248	1.86	0.032	0.0278	18.28	8.23	0.264	0.437	0.066	0.13	0.0034	(<0.005)	(<0.025)		0.007	0.0005

Analyte - Measured Values (continued)

Code	Bi	Ca	Cd	Fe	N	Nb	Pb	Sb	Se	Sn	Ta	Te	Ti	W	Zn	Zr	Size	Form	Type
IARM-35L-X	(0.0009)	(<0.002)	(<0.001)		(0.007)	(0.003)	(<0.001)	(0.0025)	(<0.002)	(0.0088)	(<0.002)		(0.002)	(0.003)	(<0.003)	(<0.005)	Ø 38x3 mm		prov.
SUS-RE12+		<0.001			<0.001	<0.001	<0.001			<0.001			<0.001	<0.002		<0.001	Ø 40x40 mm		SUS
SUS-RN19+	0.005	<0.001			0.04	>0.4	0.006	0.06		0.09	0.22	0.04	0.09	0.32	0.007	0.05	Ø 40x40 mm		SUS
NIST-1766					0.0033	0.005	0.003	0.0005		0.001	(0.006)		0.0005			(0.0004)	Ø 34x19 mm		CRM
SUS-RH18+				66.9		0.02				0.004			0.006	9.46			Ø 40x40 mm		SUS
SUS-RH31+						0.2				<0.01			<0.01	0.06		0.013	Ø 40x40 mm		CRM
IARM-5I-X		(0.0016)			0.048	0.0133	(0.0001)	(0.0019)	(0.001)	0.008	(0.006)	0.002		0.185	(0.005)	(0.002)	Ø 38x3 mm	W	CRM
ECRM-D 191-2					0.00105					0.005			0.0024				100 g		DRM
SUS-RH12+						0.04								0.06		<0.01	Ø 40x40 mm		SUS
IRSID-1670		0.0002			0.0016	(0.0003)				0.0017			0.0078				Ø 37x30mm		CRM
IARM-2H-X		(0.0021)			0.08	0.0099	(<0.003)	(0.0018)	(<0.03)	0.011	0.006		0.0019	0.022	(<0.006)	0.003	Ø 38x3 mm	W	CRM
IARM-162D-G		(0.003)			0.097	0.009	(<0.003)	(0.0019)	(<0.03)	0.0102	0.005		0.013	0.028	(<0.007)	(<0.007)	Ø 38x19 mm	W	CRM
IARM-2H-G		(0.0021)			0.08	0.0099	(<0.003)	(0.0018)	(<0.03)	0.011	0.006		0.0019	0.022	(<0.006)	0.003	Ø 38x19 mm	W	CRM

Values listed in mass %: ( ) Uncertified Value,

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ARMI - Pure Iron

		Analyte - Measured Values														
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Mg	As	B
IARM-27E-G	Carbon, Low Alloy Steel, CP Iron / K00095	0.0023	0.003	0.001	0.001	0.0008	(0.001)	0.005	(0.001)	0.001	0.0005	0.002	0.001		(0.001)	0.0005
IARM-27E-X	Carbon, Low Alloy Steel, CP Iron / K00095	0.0023	0.003	0.001	0.001	0.0008	(0.001)	0.005	(0.001)	0.001	0.0005	0.002	0.001		(0.001)	0.0005
IARM-27F-G	Carbon, Low Alloy Steel, CP Iron / K00095	0.002	0.004	<0.005	<0.005	0.0011	<0.005	<0.005	<0.005	<0.005	0.0007	0.0025	0.0009	<0.001	0.0023	<0.002
IARM-27F-X	Carbon, Low Alloy Steel, CP Iron / K00095	0.002	0.004	<0.005	<0.005	0.0011	<0.005	<0.005	<0.005	<0.005	0.0007	0.0025	0.0009	<0.001	0.0023	<0.002
IARM-27G-G	Carbon, Low Alloy Steel, CP Iron / K00095	0.003	0.07	0.003	0.003	0.0011	0.043	0.045	(0.002)	0.04	(0.001)	0.0009	0.0013	(0.0002)	0.0016	(0.0006)
IARM-27G-X	Carbon, Low Alloy Steel, CP Iron / K00095	0.003	0.07	0.003	0.003	0.0011	0.043	0.045	(0.002)	0.04	(0.001)	0.0009	0.0013	(0.0002)	0.0016	(0.0006)

	Analyte - Measured Values (continued)																
Code	Bi	Ca	Cd	N	Nb	Pb	Sb	Se	Sn	Ta	Ti	W	Zn	Zr		Size	Type
IARM-27E-G				0.0001	0.001	(0.001)			(0.001)		0.0005	(0.001)		(0.0003)		Ø38x19mm	CRM
IARM-27E-X				0.0001	0.001	(0.001)			(0.001)		0.0005	(0.001)		(0.0003)		Ø38x3mm	CRM
IARM-27F-G	<0.01	<0.001	<0.003	<0.002	<0.002	<0.005	<0.001	<0.005	<0.002	<0.005	<0.002	<0.005	<0.002	<0.005		Ø38x19mm	CRM
IARM-27F-X	<0.01	<0.001	<0.003	<0.002	<0.002	<0.005	<0.001	<0.005	<0.002	<0.005	<0.002	<0.005	<0.002	<0.005		Ø38x3mm	CRM
IARM-27G-G	(<0.007)	(0.0002)	(0.001)	(0.0003)	(0.002)	(0.002)	(<0.01)	(<0.01)	(0.001)	(<0.02)	(<0.005)	(<0.005)	(<0.005)	(0.003)		Ø38x19mm	prov.
IARM-27G-X	(<0.007)	(0.0002)	(0.001)	(0.0003)	(0.002)	(0.002)	(<0.01)	(<0.01)	(0.001)	(<0.02)	(<0.005)	(<0.005)	(<0.005)	(0.003)		Ø38x3mm	prov.

ECRM - Pure Iron

		Analyte - Measured Values															
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	As	B	N	Sb	Sn
ECRM-B 097-1-D	Pure iron - disc	(<0.0005)	(<0.01)	0.0064	0.0016	0.0022	0.0016	0.0025	(<0.001)	0.002	(<0.001)	0.0037	0.0051	0.0003	0.0007		(<0.0025)
ECRM-B 097-2-D(25MM)	High purity iron - disc		0.00285	0.0120	0.00538	0.00181	0.0213	0.0241	0.00370	0.00793	0.00011	0.0139	0.00281	0.00012	0.00294	0.00012	0.00043
ECRM-B 097-2-D(30MM)	High purity iron - disc		0.00285	0.0120	0.00538	0.00181	0.0213	0.0241	0.00370	0.00793	0.00011	0.0139	0.00281	0.00012	0.00294	0.00012	0.00043
ECRM-D 098-1	Pure iron - disc	0.00051	0.00048	0.00008	(0.00006)	0.00031	0.00571		0.00085						0.00024		

	Analyte - Measured Values (continued)					
Code	Ta	W	Zn		Size	Type
ECRM-B 097-1-D					Ø 38x30 mm	CRM
ECRM-B 097-2-D(25MM)	0.00015	0.00386	0.00014		Ø 38x25 mm	CRM
ECRM-B 097-2-D(30MM)	0.00015	0.00386	0.00014		Ø 38x30 mm	CRM
ECRM-D 098-1					Ø 35-39 x 20-35 mm	CRM

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Pure Iron

		Analyte - Measured Values																	
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	As	B	Fe	N	Pb	Ti
NIST-1265A	Electrolytic Iron	0.0067	0.008	0.0057	0.0011	0.0055	0.007	0.041	0.005	0.0058	0.0006	0.007	(0.0007)	(0.0002)	0.00013	[99.9]		0.00001	(0.0001)
NIST-1768	High-Purity Iron	0.001		0.0014	0.0013	0.0003		0.0014		0.0006		0.0025	0.0024				0.002		

Code		Size	Type
NIST-1265A		Ø 32x19 mm	CRM
NIST-1768		Ø 31x19 mm	CRM

NCS - Pure Iron

		Analyte - Measured Values																	
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Al(t)	As	B	Ca	N	Nb
NCS AH11351A	Pure Iron	0.0013	0.0015	0.16	0.0054	0.0013	0.195	0.067	0.013	0.02	<0.001	0.0072	<0.001		0.0058	<0.0005	(0.0003)	0.0037	<0.001
NCS HS15746	Pure Iron	0.017	0.214	0.151	0.010	0.0022	0.017	0.105		0.118				0.413				0.006	
NCS HS15747	Pure Iron	0.022	0.199	0.201	0.0072	0.0027	0.032	0.066		0.066				0.217				0.012	
NCS HS15748	Pure Iron	0.061	0.166	0.319	0.04	0.0050	0.022	0.020		0.020				0.284				0.015	

	Analyte - Measured Values (continued)						
Code	Pb	Sn	Ti	W		Size	Type
NCS AH11351A	<0.0005	0.0015	0.0005	(0.002)		Ø 38x40 mm	SUS
NCS HS15746						Ø 35x30 mm	CRM
NCS HS15747						Ø 35x30 mm	CRM
NCS HS15748						Ø 35x30 mm	CRM

NCS - Pure Iron (set)

		Analyte - Measured Values											
Code	Description	C	Si	Mn	P	S	Cr	Ni	Cu	Al		Size	Type
NCS HS15704A-1	Pure Iron only set of 5	0.022	0.212	0.165	0.0043	0.01	0.017	0.027	0.021	0.29		Ø 37x55 mm	CRM
NCS HS15704A-2	Pure Iron only set of 5	0.013	0.002	0.026	0.0032	0.022	0.002	0.019	0.102			Ø 37x55 mm	CRM
NCS HS15704A-3	Pure Iron only set of 5	0.018	0.061	0.063	0.0073	0.0092	0.0026	0.0209	0.074	0.129		Ø 37x55 mm	CRM
NCS HS15704A-4	Pure Iron only set of 5	0.02	0.074	0.216	0.0068	0.006	0.009	0.021	0.023	0.39		Ø 37x55 mm	CRM
NCS HS15704A-5	Pure Iron only set of 5	0.088	0.032	0.41	0.0167	0.0097	0.0032	0.0107	0.142	0.029		Ø 37x55 mm	CRM

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Miscellaneous - Pure Iron

		Analyte - Measured Values															
Code	**Description**	**C**	**Si**	**Mn**	**P**	**S**	**Cr**	**Ni**	**Mo**	**Cu**	**V**	**Co**	**Al**	**Mg**	**As**	**B**	**Ca**
BS-50F	Iron	0.0064	0.016	0.082	0.0066	0.0031	0.022	0.016	0.0017	0.0088	(0.0003)	0.0023	0.003	(<0.0001)	0.0013	(<0.0002)	(0.0001)
CTIF-TL-1669	Pure Iron	0.00226	0.0093	0.0955	0.0137	0.01	0.0246	0.016	0.0011	0.0217	(0.0006)	0.0019	0.03553	(0.00016)	0.0017	0.00038	0.00017
TH 1045	C + S + N in Steel	0.0023				0.0043											
SUS-RE12+	PURE IRON, SUS	<0.003	<0.003	<0.01	<0.001	<0.002	<0.002	<0.0015	<0.001	<0.001	<0.001	<0.001	<0.002		<0.001	<0.001	<0.001

	Analyte - Measured Values (continued)											
Code	**N**	**Nb**	**Pb**	**Sb**	**Sn**	**Ti**	**W**	**Zn**	**Zr**		**Size**	**Type**
BS-50F	0.0042	(<0.0002)	(<0.0003)	(<0.0010)	0.001	0.0004	(<0.0050)	(0.0014)	(<0.0005)		Ø 35x19 mm	CRM
CTIF-TL-1669	0.0024	0.00046	0.00013	0.00049	0.0071	0.0504		0.00027	(0.00021)		Ø 20x38 mm	RM
TH 1045	0.0046										Ø 40x40 mm	RM
SUS-RE12+	<0.001	<0.001	<0.001		<0.001	<0.001	<0.002		<0.001		Ø 40x40 mm	SUS

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MBH - Mild Steel

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	As	B	Bi	N
MBH-12X 349 D	Residuals in Mild Steel	0.2	0.22	0.5	0.02	0.023	0.3	0.3	0.13	0.11	0.015	0.02	0.16	0.002			
MBH-12X 350 B	Residuals in Mild Steel	0.138	0.672	0.706	0.029	0.0363	0.392	0.162	0.149	0.15	0.0286	0.0206	0.341	0.053			
MBH-12X 352 D	Residuals in mild steel	0.298	0.338	0.627	0.066	0.125	0.423	0.334	0.257	0.144	0.0584	0.0504	0.146	0.0095			
MBH-12X 353 G	Residuals in Mild Steel	0.11	0.21	0.71	0.008	0.015	0.71	0.21	0.11	0.23	0.02	0.025	0.05	0.05			
MBH-12X 354 B	Residuals in Mild Steel	0.25	0.2	5.0	0.05	0.01	0.05	0.08	0.03	0.07	0.02	0.025	0.02	0.03			0.002
MBH-12X 355 C	Residuals in Mild Steel	0.159	0.494	0.508	0.0214	0.0241	0.113	0.071	0.101	0.657	0.1265	0.0495	0.1104	0.0331	(0.0012)		0.0023
MBH-12X 356 C	Residuals in mild steel	0.21	0.07	0.20	0.055	0.03	0.25	0.04	0.03	0.43	0.06	0.15	0.035	0.025	0.001	0.007	0.006
MBH-12X 357 C	Residuals in Mild Steel	0.27	0.16	0.22	0.011	0.057	0.09	0.10	0.01	0.27	0.17	0.20	0.20	0.015	0.011	0.005	0.007
MBH-12X 358 A	Low-alloy Steel, wrought	0.13	0.2	0.7	0.01	0.015	0.63	0.2	0.1	0.2	0.03	0.04	0.06	0.04			
MBH-12X 10180 B	Residuals in mild steel	0.169	0.114	0.722	0.0101	0.0056	0.0451	0.0333	0.0062	0.0544			0.043	0.0059			0.0071
MBH-12X 10180 C	Residuals in Mild Steel	0.171	0.147	0.803	0.015	0.02	0.0793	0.0284	0.0047	0.05			0.0198	0.0029			0.0052

Analyte - Measured Values (continued)

Code	Nb	Pb	Sb	Se	Sn	Ti	W	Zn	Zr		Size	Form	Type
MBH-12X 349 D					0.15	0.11	0.05				Ø 40x15 mm	W	prov.
MBH-12X 350 B					0.0298	0.099	0.275				Ø 40x15 mm	W	CRM
MBH-12X 352 D					0.105	0.285	0.223				Ø 40x15 mm	W	CRM
MBH-12X 353 G	0.06		0.14	0.02	0.12	0.04	0.14		0.035		Ø 40x15 mm	W	prov.
MBH-12X 354 B	0.08				0.015	0.025	0.025				Ø 38x15-20 mm	W	prov.
MBH-12X 355 C	0.023		0.0796	0.0395	0.0564	0.153	0.037		0.0192		Ø 38x15-20 mm	W	CRM
MBH-12X 356 C	0.003	0.025	0.03	0.005	0.038	0.03	0.11	0.01			Ø 40x15 mm	W	CRM
MBH-12X 357 C	0.005	0.03	0.012	0.003	0.018	0.06	0.02	0.008			Ø 40x15 mm	W	CRM
MBH-12X 358 A	0.11		0.13	0.1	0.12	0.05	0.12		0.01		Ø 40x15 mm	W	prov
MBH-12X 10180 B					0.0065			0.0079			Ø 40x20 mm	W	CRM
MBH-12X 10180 C					0.0024			0.0005			Ø 40x20 mm	W	CRM

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MBH - Mild Steel

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	As	B	N	Nb
MBH-12X 10400 A	Residuals in mild steel	0.42	0.22	0.754	0.0137	0.0305	0.139	0.0631	0.0169	0.14			0.0323	0.0068		0.0133	
MBH-12X 10550 A	Residuals in Mild Steel	0.549	0.281	0.685	0.0184	0.0055	0.338	0.0247	0.0086	0.0290			0.0325	0.0059		0.0051	
MBH-12X 12700 A	Residuals in Mild Steel	0.364	0.238	0.636	0.0205	0.0116	0.07	0.0197	0.0345	0.0342	0.0033	0.0047	0.055	0.006	0.0014	0.0073	
MBH-12X 12701 A	Residuals in Mild Steel	0.33	0.308	0.636	0.0218	0.0124	0.235	0.0557	0.0163	0.0346	0.004	0.0058	0.0426	0.006	0.001	0.0072	
MBH-12X 12746 U	Residuals in Mild Steel	0.0132	0.138	1.7	0.0247	0.064	0.182	0.161	0.654	0.368	0.016	0.115	0.021	0.049			
MBH-12X 12747 U	Residuals in Mild Steel	0.149	0.337	2.02	0.029	0.041	0.443	0.391	0.5	0.437	0.0375	0.2	0.015	0.0114			
MBH-12X 12748 U	Residuals in Mild Steel	0.10	0.22	0.91	0.032	0.050	0.41	0.38	0.33	0.34	0.052	0.33	0.105	0.13			
MBH-12X 12749 W	Residuals in mild steel	0.132	0.298	1.25	0.0257	0.101	0.554	0.485	0.224	0.311	0.069	0.436	0.004	0.071			
MBH-12X 12750 U	Residuals in Mild Steel	0.258	0.599	0.51	0.0078	0.0053	0.792	0.786	0.088	0.106	0.102	0.581	0.253				0.111
MBH-12X 15180 A	Residuals in Mild Steel	0.170	0.212	1.196	0.0110	0.0022	0.118	0.1030	0.0231	0.141			0.018	0.0117		0.0051	
MBH-12X 15240 A	Residuals in Mild Steel	0.201	0.198	1.496	0.0152	0.0201	0.1032	0.0761	0.0166	0.2	0.002		0.0188	0.0106		0.007	

Analyte - Measured Values (continued)

Code	Sn	Ti	W	Zn		Size	Form	Type
MBH-12X 10400 A	0.0127			0.0033		Ø 40x15mm	W	CRM
MBH-12X 10550 A	0.0018			(0.0016)		Ø 40x20 mm	W	CRM
MBH-12X 12700 A				0.012		Ø 50x20 mm	C	CRM
MBH-12X 12701 A				0.0014		Ø 50x20 mm	C	CRM
MBH-12X 12746 U	0.202	0.0283	0.101			Ø 40x15 mm	W	CRM
MBH-12X 12747 U	0.167	0.072	0.03			Ø 42x15 mm	W	CRM
MBH-12X 12748 U	0.080	0.110	0.045			Ø 42x15 mm	W	CRM
MBH-12X 12749 W	0.04	0.031	0.034			Ø 40x15 mm	W	CRM
MBH-12X 12750 U	0.11	0.159	0.1			Ø 40x15 mm	W	CRM
MBH-12X 15180 A	0.0115			0.0016		Ø 40x20 mm	W	CRM
MBH-12X 15240 A	0.0153			0.002		Ø 40x20 mm	W	prov.

Values listed in mass %: ( ) Uncertified Value,

C=Cast, CC=Chill Cast, CCC=Continuous Chill Cast, CW=Concast/Wrought, W=Wrought, SC=Single Cast, HIP=Hot Isostatically-pressed Powder

ARMI - Carbon Steel

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Mg	As	B
IARM-28K-G	Carbon Steel, AISI 1018 / UNS G10180	0.174	0.29	0.805	0.012	0.027	0.107	0.064	0.0209	0.17	0.001	0.006	0.0019	(<0.005)	(0.005)	(0.0004)
IARM-28K-X	Carbon Steel, AISI 1018 / UNS G10180	0.174	0.29	0.805	0.012	0.027	0.107	0.064	0.0209	0.17	0.001	0.006	0.0019	(<0.005)	(0.005)	(0.0004)
IARM-29E-G	Carbon Steel, AISI 1117 / UNS G11170	0.193	0.239	1.19	0.0157	0.121	0.105	0.082	0.0269	0.253	0.0255	0.008	0.0032	(0.0003)	0.0085	0.0007
IARM-29E-X	Carbon Steel, AISI 1117 / UNS G11170	0.193	0.239	1.19	0.0157	0.121	0.105	0.082	0.0269	0.253	0.0255	0.008	0.0032	(0.0003)	0.0085	0.0007
IARM-164A-G	SCLA, CLA1	0.004	0.019	1.57	0.004	0.07	0.032	1.29	0.009	0.88	0.78	0.006	0.72		(0.002)	(0.0001)
IARM-164A-X	SCLA, CLA1	0.004	0.019	1.57	0.004	0.07	0.032	1.29	0.009	0.88	0.78	0.006	0.72		(0.002)	(0.0001)
IARM-166A-G 12MM	SCLA, CLA3	0.003	0.91	1.29	0.005	0.073	0.014	0.77	1.08	0.64	0.40	0.004	0.55		(0.004)	(0.0002)
IARM-166A-X	SCLA, CLA3	0.003	0.91	1.29	0.005	0.073	0.014	0.77	1.08	0.64	0.40	0.004	0.55		(0.004)	(0.0002)
IARM-168A-G	SCLA, CLA5	0.003	0.46	0.12	0.03	0.064	0.004	2.32	0.69	0.009	0.004	0.003	0.19		(0.003)	0.0004
IARM-168A-X	SCLA, CLA5	0.003	0.46	0.12	0.03	0.064	0.004	2.32	0.69	0.009	0.004	0.003	0.19		(0.003)	0.0004
IARM-172A-G	SCLA, CLA9	0.78	1.29	0.01	0.007	0.004	3.52	0.025	0.014	0.4	0.003	0.006	0.39		(0.005)	0.0003
IARM-172A-X	SCLA, CLA9	0.78	1.29	0.01	0.007	0.004	3.52	0.025	0.014	0.4	0.003	0.006	0.39		(0.005)	0.0003
IARM-180A-G	SCLA, CLA11	0.007	0.023	0.41	0.004	0.046	0.037	1.29	0.006	0.89	0.76	0.004	0.76		(0.004)	0.0004
IARM-180A-X	SCLA, CLA11	0.007	0.023	0.41	0.004	0.046	0.037	1.29	0.006	0.89	0.76	0.004	0.76		(0.004)	0.0004
IARM-200D-G	Carbon Steel, AISI 1045 / UNS G10450	0.453	0.225	0.749	0.0103	0.024	0.109	0.097	0.0217	0.232	0.0244	0.007	0.004	(<0.001)	0.005	(0.0002)
IARM-200D-X	Carbon Steel, AISI 1045 / UNS G10450	0.453	0.225	0.749	0.0103	0.024	0.109	0.097	0.0217	0.232	0.0244	0.007	0.004	(<0.001)	0.005	(0.0002)

Analyte - Measured Values (continued)

Code	Bi	Ca	Cd	N	Nb	Pb	Sb	Se	Sn	Ta	Ti	W	Zn	Zr		Size	Form	Type
IARM-28K-G	(<0.001)	(<0.001)	(<0.001)	0.008	0.0015	0.012	(0.002)	(<0.005)	0.008	(<0.008)	(0.0014)	(0.0023)	(<0.003)	(0.0016)		Ø 38x19 mm	W	prov.
IARM-28K-X	(<0.001)	(<0.001)	(<0.001)	0.008	0.0015	0.012	(0.002)	(<0.005)	0.008	(<0.008)	(0.0014)	(0.0023)	(<0.003)	(0.0016)		Ø 38x3 mm	W	prov.
IARM-29E-G	(<0.013)	0.0012		0.0093	0.0024	0.001	0.003	(0.0006)	0.0109	(0.0004)	0.0014	(<0.007)	(0.004)	(<0.004)		Ø 38x19 mm	W	CRM
IARM-29E-X	(<0.013)	0.0012		0.0093	0.0024	0.001	0.003	(0.0006)	0.0109	(0.0004)	0.0014	(<0.007)	(0.004)	(<0.004)		Ø 38x3 mm	W	CRM
IARM-164A-G				0.0003	0.006	(0.004)			0.002		0.002	1.44				Ø 38x19 mm	W	CRM
IARM-164A-X				0.0003	0.006	(0.004)			0.002		0.002	1.44				Ø 38x3 mm	W	CRM
IARM-166A-G 12MM		(0.0003)		0.0002	0.006	(<0.01)			(0.003)		0.002	1.02		(<0.01)		Ø 38x19 mm	W	CRM
IARM-166A-X		(0.0003)		0.0002	0.006	(<0.01)			0.003		0.002	1.02		(<0.01)		Ø 38x3 mm	W	CRM
IARM-168A-G				0.0002	0.003	(<0.01)			0.003		0.004	0.52				Ø 38x19 mm	W	CRM
IARM-168A-X				0.0002	0.003	(<0.01)			0.003		0.004	0.52				Ø 38x3 mm	W	CRM
IARM-172A-G		(0.0001)		0.0004	0.004	(<0.01)			0.003		0.003	0.038		(<0.005)		Ø 38x19 mm	W	CRM
IARM-172A-X		(0.0001)		0.0004	0.004	(<0.01)			0.003		0.003	0.038		(<0.005)		Ø 38x3 mm	W	CRM
IARM-180A-G				0.0096	(0.005)	(0.002)			0.002		0.002	1.48				Ø 38x19 mm	W	CRM
IARM-180A-X				0.0096	(0.005)	(0.002)			0.002		0.002	1.48				Ø 38x3 mm	W	CRM
IARM-200D-G		(0.001)		0.009	0.001	(<0.002)	(0.0019)		0.0079	(<0.005)	0.00013	0.003	(0.002)			Ø 38x19 mm		CRM
IARM-200D-X		(0.001)		0.009	0.001	(<0.002)	(0.0019)		0.0079	(<0.005)	0.00013	0.003	(0.002)			Ø 38x3 mm		CRM

Values listed in mass %: ( ) Uncertified Value,

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ARMI - Carbon Steel

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Mg	As	B
IARM-206B-G	Carbon Steel, AISI 1215 / UNS G12150	0.074	0.012	1.01	0.05	0.293	0.038	0.053	0.018	0.113	0.0016	0.007	0.0025		0.0045	0.0006
IARM-206B-X	Carbon Steel, AISI 1215 / UNS G12150	0.074	0.012	1.01	0.05	0.293	0.038	0.053	0.018	0.113	0.0016	0.007	0.0025		0.0045	0.0006
IARM-209D-G	Carbon Steel, AISI 1030 / UNS G10300	0.32	0.27	0.67	0.009	0.021	0.14	0.079	0.036	0.243	0.042	0.006	0.003		0.006	0.0002
IARM-209D-X	Carbon Steel, AISI 1030 / UNS G10300	0.32	0.27	0.67	0.009	0.021	0.14	0.079	0.036	0.243	0.042	0.006	0.003		0.006	0.0002
IARM-210D-G	Carbon Steel, AISI 1040 / UNS G10400	0.41	0.23	0.73	0.005	0.031	0.1	0.122	0.033	0.27	0.024	0.006	(0.003)		0.006	0.0004
IARM-210D-X	Carbon Steel, AISI 1040 / UNS G10400	0.41	0.23	0.73	0.005	0.031	0.1	0.122	0.033	0.27	0.024	(0.006)	(0.003)		0.006	0.0004
IARM-213C-G	Carbon Steel, A36 / UNS K02600	(0.2)	(0.25)	(0.92)	(0.007)	(0.026)	(0.098)	(0.068)	(0.022)	(0.149)	(0.035)	(0.007)	(0.002)	(<0.001)	(0.0059)	(0.003)
IARM-213C-X	Carbon Steel, A36 / UNS K02600	(0.2)	(0.25)	(0.92)	(0.007)	(0.026)	(0.098)	(0.068)	(0.022)	(0.149)	(0.035)	(0.007)	(0.002)	(<0.001)	(0.0059)	(0.003)
IARM-213D-G	Carbon Steel, A36 / UNS K02600	0.158	0.226	0.725	0.012	0.031	0.093	0.076	0.0131	0.207	0.001	0.009	0.003		(0.006)	(0.0004)
IARM-213D-X	Carbon Steel, A36 / UNS K02600	0.158	0.226	0.725	0.012	0.031	0.093	0.076	0.0131	0.207	0.001	0.009	0.003		(0.006)	(0.0004)
IARM-307A-G	Carbon, Low Alloy Steel, AISI 1118 / G11180	0.163	0.281	1.44	0.0113	0.096	0.104	0.197	0.045	0.190	0.0028	0.010	0.032	(<0.006)	0.008	(<0.005)
IARM-307A-X	Carbon, Low Alloy Steel, AISI 1118 / G11180	0.163	0.281	1.44	0.0113	0.096	0.104	0.197	0.045	0.190	0.0028	0.010	0.032	(<0.006)	0.008	(<0.005)
IARM-342A-G	Low-Alloy Steel, Hy-Tuff / UNS K32550	0.257	1.63	1.37	0.006	0.0051	0.38	1.76	0.42	0.11	0.023	0.008	0.019	0.0002	(0.006)	0.0004
IARM-342A-X	Low-Alloy Steel, Hy-Tuff / UNS K32550	0.257	1.63	1.37	0.006	0.0051	0.38	1.76	0.42	0.11	0.023	0.008	0.019	(0.0002)	0.006	0.0004

Analyte - Measured Values (continued)

Code	Bi	Ca	Cd	N	Nb	Pb	Sb	Se	Sn	Ta	Ti	W	Zn	Zr		Size	Form	Type
IARM-206B-G				0.0075	0.002	(0.001)	(0.002)		0.0064		0.0008	(0.003)		(0.002)		Ø 38x19 mm	W	CRM
IARM-206B-X				0.0075	0.002	(0.001)	(0.002)		0.0064		0.0008	(0.003)		0.002		Ø 38x3 mm	W	CRM
IARM-209D-G		0.002		0.0107	0.001	0.001	0.003		0.011		0.001	0.001				Ø 38x19 mm	W	CRM
IARM-209D-X		0.002		0.0107	0.001	0.001	0.003		0.011		0.001	0.001				Ø 38x3 mm	W	CRM
IARM-210D-G		0.001		0.0113		0.001	0.002		0.01		0.01	(0.002)				Ø 38x19 mm	W	CRM
IARM-210D-X		(0.001)		0.0113		(0.001)	(0.002)		0.01		0.01	(0.002)				Ø 38x3 mm	W	CRM
IARM-213C-G	(<0.0005)	(0.0014)		(0.012)	(0.001)	(0.0011)	(0.002)		(0.008)		(0.0011)	(0.001)	(<0.007)	(0.001)		Ø 38x19 mm	W	CRM
IARM-213C-X	(<0.0005)	(0.0014)		(0.012)	(0.001)	(0.0011)	(0.002)		(0.008)		(0.0011)	(0.001)	(<0.007)	(0.001)		Ø 38x3 mm	W	CRM
IARM-213D-G		(0.0015)		0.008	0.0012	(<0.001)	(0.0032)		0.0147	(<0.005)	0.0011	0.003	(0.002)			Ø 38x19 mm		CRM
IARM-213D-X		(0.0015)		0.008	0.0012	(<0.001)	(0.0032)		0.0147	(<0.005)	0.0011	0.003	(0.002)			Ø 38x3 mm		CRM
IARM-307A-G	(<0.02)	(<0.0005)	(<0.001)	0.0108	(0.002)	0.002	(<0.004)	(<0.006)	0.0090	(<0.005)	0.0015	(0.005)	(<0.002)	(0.002)		Ø 38x19 mm		CRM
IARM-307A-X	(<0.02)	(<0.0005)	(<0.001)	0.0108	(0.002)	0.002	(<0.004)	(<0.006)	0.0090	(<0.005)	0.0015	(0.005)	(<0.002)	(0.002)		Ø 38x3 mm		CRM
IARM-342A-G		(0.0001)		0.0102	(0.002)	0.0008	0.0021		0.021		0.0028	(0.005)	0.001	(0.002)		Ø 38x19 mm	W	CRM
IARM-342A-X		(0.0001)		0.0102	(0.002)	0.0008	0.0021		0.021		0.0028	(0.005)	(0.001)	(0.002)		Ø 38x3 mm	W	CRM

Values listed in mass %: ( ) Uncertified Value,

C=Cast, CC=Chill Cast, CCC=Continuous Chill Cast, CW=Concast/Wrought, W=Wrought, SC=Single Cast, HIP=Hot Isostatically-pressed Powder

ARMI - Carbon Steel

		Analyte - Measured Values													
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Mg	As
IARM-348A-G	Carbon, Low Alloy Steel, AISI 1141 / G11410	0.384	0.270	1.46	0.0121	0.102	0.123	0.081	0.026	0.230	0.0029	0.010	0.002	(<0.006)	0.007
IARM-348A-X	Carbon, Low Alloy Steel, AISI 1141 / G11410	0.384	0.270	1.46	0.0121	0.102	0.123	0.081	0.026	0.230	0.0029	0.010	0.002	(<0.006)	0.007
IARM-349A-G	Carbon Steel, AISI 1541 / UNS G15410	(0.41)	(0.19)	(1.48)	(0.011)	(0.024)	(0.19)	(0.178)	(0.059)	(0.3)	(0.027)	(0.008)	(0.002)	(<0.001)	(0.005)
IARM-349A-X	Carbon Steel, AISI 1541 / UNS G15410	(0.41)	(0.19)	(1.48)	(0.011)	(0.024)	(0.19)	(0.178)	(0.059)	(0.3)	(0.027)	(0.008)	(0.002)	(<0.001)	(0.005)
IARM-359A-G	Carbon Steel, AISI 1026 / UNS G10260	0.267	0.233	0.686	0.0094	0.02	0.121	0.068	0.023	0.186	0.027	0.0069	0.002	(0.0005)	0.0073
IARM-359A-X	Carbon Steel, AISI 1026 / UNS G10260	0.267	0.233	0.686	0.0094	0.02	0.121	0.068	0.023	0.186	0.027	0.0069	0.002	(0.0005)	0.0073
IARM-360A-G	Carbon Steel, AISI 1035 / UNS G10350	0.331	0.26	0.733	0.008	0.023	0.113	0.078	0.024	0.235	0.039	0.0067	0.0016	(0.0003)	0.006
IARM-360A-X	Carbon Steel, AISI 1035 / UNS G10350	0.331	0.26	0.733	0.008	0.023	0.113	0.078	0.024	0.235	0.039	0.0067	0.0016	(0.0003)	0.006
IARM-373A-G	Carbon Steel, AISI 1060 / UNS G10600	0.63	0.22	0.7	0.0123	0.031	0.096	0.048	0.0176	0.107	0.023	0.005	0.002	(0.0004)	0.0046
IARM-373A-X	Carbon Steel, AISI 1060 / UNS G10600	0.63	0.22	0.7	0.0123	0.031	0.096	0.048	0.0176	0.107	0.023	0.005	0.002	(0.0004)	0.0046

	Analyte - Measured Values (continued)																	
Code	B	Bi	Ca	Cd	N	Nb	Pb	Sb	Se	Sn	Ta	Ti	W	Zn	Zr	Size	Form	Type
IARM-348A-G	0.0013	(<0.02)	0.001	(<0.001)	0.010	0.027	(0.002)	(0.003)	(<0.005)	0.0112	(<0.008)	0.0015	(0.009)	(<0.003)	(0.003)	Ø 38x19 mm		CRM
IARM-348A-X	0.0013	(<0.02)	0.001	(<0.001)	0.010	0.027	(0.002)	(0.003)	(<0.005)	0.0112	(<0.008)	0.0015	(0.009)	(<0.003)	(0.003)	Ø 38x3 mm		CRM
IARM-349A-G	(0.0003)		(0.0012)		(0.01)	(0.001)	(0.002)	(0.002)		(0.015)		(0.0015)	(0.004)	(0.003)	(<0.002)	Ø 38x19 mm	W	CRM
IARM-349A-X	(0.0003)		(0.0012)		(0.01)	(0.001)	(0.002)	(0.002)		(0.015)		(0.0015)	(0.004)	(0.003)	(<0.002)	Ø 38x3 mm	W	CRM
IARM-359A-G	0.0003		0.0013		0.0094	0.002	(0.001)	(0.002)		0.01		0.0009	(0.001)		(0.001)	Ø 38x19 mm	W	CRM
IARM-359A-X	0.0003		0.0013		0.0094	0.002	(0.001)	(0.002)		0.01		0.0009	(0.001)		(0.001)	Ø 38x3 mm	W	CRM
IARM-360A-G	0.0004		0.0017		0.0102	0.0015	(0.001)	0.0023		0.01		0.001	(0.001)	(0.003)	(0.001)	Ø 38x19 mm	W	CRM
IARM-360A-X	0.0004		0.0017		0.0102	0.0015	(0.001)	0.0023		0.01		0.001	(0.001)	(0.003)	(0.001)	Ø 38x3 mm	W	CRM
IARM-373A-G	0.0003		0.0005		0.0088	0.001	(0.001)	(0.002)		0.0069		0.0017	0.002	(0.003)	(0.003)	Ø 38x19 mm	W	CRM
IARM-373A-X	0.0003		0.0005		0.0088	0.001	(0.001)	(0.002)		0.0069		0.0017	0.002	(0.003)	(0.003)	Ø 38x3 mm	W	CRM

NIST - Carbon Steel

		Analyte - Measured Values														
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Ga	Size	Type
NIST-1224	Low alloy steel carbon (AISI 1078)	0.75	0.1725	0.41	0.009	0.039	0.071	0.054	0.013	0.072	0.002		0.06		Ø 32x19 mm	CRM
NIST-1227	Low alloy steel, basic open hearth, 1% C	0.97	0.215	0.402	0.014	0.026	0.019	0.007	0.003	0.006	0.002	0.003		0.022	Ø 32x19 mm	CRM
NIST-1228	Low alloy steel, o,1% C	0.072	0.007	0.365	0.004	0.018	0.016	0.018	0.009	0.012	<0.001		0.061		Ø 32x19 mm	CRM
NIST-C1221	Carbon steel	0.02	0.876	0.102	0.09	0.112	0.049	0.067	0.038	0.041			0.111		Ø 32x16 mm	CRM

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ECRM - Carbon Steel

		Analyte - Measured Values														
Code	**Description**	**C**	**Si**	**Mn**	**P**	**S**	**Cr**	**Ni**	**Mo**	**Cu**	**V**	**Co**	**Al**	**As**	**Bi**	**Cd**
ECRM-D 035-2-D	1.3% Carbon steel - disc	1.277	0.216	0.305	0.0038	0.011	0.0104	0.019	0.0056	0.0085			0.0193	0.0017		
ECRM-B 055-2-D-25MM	0.5% carbon steel - disc	0.5199	0.3094	0.687	0.0102	0.0205	0.3217	0.3121	0.096	0.2089	0.00245	0.0257		0.0187		
ECRM-B 055-2-D-30MM	0.5% carbon steel - disc	0.5199	0.3094	0.687	0.0102	0.0205	0.3217	0.3121	0.096	0.2089	0.00245	0.0257		0.0187		
ECRM-B 056-2-D-25MM	0.8% Carbon steel - disc	0.8181	0.3094	0.5073	0.0103	0.0093	0.0146	0.0218		0.0129			0.00024			
ECRM-B 056-2-D-30MM	0.8% Carbon steel - disc	0.8181	0.3094	0.5073	0.0103	0.0093	0.0146	0.0218		0.0129			0.00024			
ECRM-B 057-2-D	0,05% Carbon steel (BS/DIN EN 10130) - disc	0.0507		0.246	0.012	0.0127	0.0114	0.0096		0.0146			0.059			
ECRM-B 059-2-D	0.7% Carbon steel (BS EN 10277) - disc	0.721	0.188	0.495	0.0046	0.0084	0.009	0.0198	0.0018	0.0074			0.00045			
ECRM-B 084-1-D	Unalloyed steel - disc	0.391	0.265	0.86		0.029		0.154	0.033	0.267						
ECRM-B 087-1-D	0.15% Carbon Steel - disc	0.174	0.263	0.671	0.01	0.046	0.078	0.118	0.021	0.171		0.015		0.024		
ECRM-B 090-1-D	1% Carbon steel - disc	1.05	0.281	0.226	0.013	0.0095	0.121	0.053	0.009		0.204				<0.00002	<0.00002

	Analyte - Measured Values (continued)													
Code	**Ga**	**N**	**Nb**	**Pb**	**Sb**	**Sn**	**Te**	**Ti**	**Tl**	**W**	**Zn**		**Size**	**Type**
ECRM-D 035-2-D		0.023						0.003					Ø 40x20 mm	CRM
ECRM-B 055-2-D-25MM		0.01069			0.00376	0.0162		0.00104		0.0166			Ø 38x25 mm	CRM
ECRM-B 055-2-D-30MM		0.01069			0.00376	0.0162		0.00104		0.0166			Ø 38x30 mm	CRM
ECRM-B 056-2-D-25MM													Ø 44x25 mm	CRM
ECRM-B 056-2-D-30MM													Ø 44x30 mm	CRM
ECRM-B 057-2-D		0.0023											Ø 38x30 mm	CRM
ECRM-B 059-2-D		0.0051											Ø 38x30 mm	CRM
ECRM-B 084-1-D						0.023							Ø 38x30 mm	CRM
ECRM-B 087-1-D					0.0046	0.017							Ø 38x30 mm	CRM
ECRM-B 090-1-D	0.00228	0.0146	0.00043	0.00239	0.0009		<0.00020		<0.00010		0.00209		Ø 38x30 mm	CRM

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BS - Carbon Steel

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Mg	As
BS-56E	1045 Carbon Steel	0.483	0.24	0.72	0.01	0.025	0.021	0.015	0.005	0.015	(<0.002)	0.005	0.062		0.0035
BS-56H	1045 Carbon Steel	0.457	0.21	0.772	0.0096	0.0234	0.098	0.154	0.0419	0.299	0.0295	0.0078	0.0009	0.0002	0.0056
BS-64C	1095 Carbon Steel	0.92	0.22	0.22	0.015	0.0024	0.261	0.038	0.008	0.016	0.005	0.004	(0.005)		
BS-1016	Carbon Steel Grade 1016 - UNS Number G10116	0.17	0.19	0.77	0.01	0.03	0.09	0.11	0.04	0.15	0.001	0.02	0.02	<0.005	0.006
BS-1018	Carbon Steel Grade 1018 - UNS Number G10180	0.19	0.23	0.8	0.013	0.026	0.18	0.11	0.05	0.13	0.001	<0.05	0.03	<0.005	<0.005
BS-1020	Carbon steel, 1020	0.210	0.25	0.568	0.0058	0.0249	0.109	0.059	0.018	0.184	0.0363	0.0070	0.0006	0.0001	0.0074
BS-1026	Carbon Steel, Alloy 1026	0.26	0.268	0.715	0.0171	0.0191	0.163	0.096	0.0289	0.247	0.0016	0.0072	0.033	(0.0002)	0.01
BS-1030	1030 Carbon Steel	0.331	0.261	0.682	0.0101	0.0299	0.124	0.078	0.0182	0.269	0.031	0.0069	0.0014	(0.0002)	0.0055
BS-2931B	1018 Steel	0.159	0.207	0.788	0.0108	0.0292	0.08	0.083	0.0329	0.098	0.0014	0.0056	0.0191	0.0001	0.0033
BS-3941	1040 Carbon Steel	0.41	0.257	0.8	0.016	0.023	0.068	0.019	0.006	0.053	0.003	0.004	0.002		0.003
BS-LC6	Carbon Steel CRM	0.002	0.05	0.469	0.0007	0.0009	0.0023	0.0057	(0.0006)	0.0003	(<0.0010)	0.0021	0.034	(0.00003)	(<0.0020)
BS-LF2B	A350 (LF2), K03011	0.18	0.21	1.06	0.008	0.007	0.14	0.12	0.040	0.32	0.030	0.007	0.029	<0.0005	0.005
BS-XCCS-1	Low Alloy Steel	0.0441	0.292	0.356	0.0068	0.0022	0.0288	0.0132	0.006	0.0143	0.0012	0.0017	0.061	(0.0003)	0.0024

Analyte - Measured Values (continued)

Code	B	Ca	Fe	N	Nb	Pb	Sb	Sn	Ta	Ti	W	Zn	Zr		Size	Type
BS-56E		(<0.0005)		0.0056	(<0.002)	(0.0001)	0.0004	(0.0006)		(0.001)					Ø 35-44x19 mm	RM
BS-56H	0.0002	0.0012	97.8	0.0106	0.0009	0.0004	0.0025	0.0124	0.0011	0.0009	0.0007		0.0007		Ø 38x19 mm	CRM
BS-64C				0.0084	(<0.003)			(0.001)		(0.002)					Ø 38-45x19 mm	RM
BS-1016	<0.005	<0.005	[98.3]	<0.05	0.001	<0.05		0.01		0.001	<0.05		<0.005		Ø 60x19 mm	prov.
BS-1018	<0.005	<0.005	[98.2]	0.01	<0.005	<0.005		<0.05		<0.005	<0.005		<0.05		Ø 38x19 mm	prov.
BS-1020	(0.0001)	0.0022	98.5	0.0109	(0.0003)	(0.0002)	(0.0018)	0.0090		(0.0005)	(0.0004)		(0.0005)		Ø 44x19 mm	CRM
BS-1026	(0.0002)	0.0017	(97.8)	0.0083	(0.0004)	(0.0002)	0.0019	0.0112	(0.002)	(0.0004)	0.0021		(0.0002)		Ø 38x19 mm	CRM
BS-1030	0.0003	0.0012	(98.1)	0.0107	(0.0004)	0.0005	0.0024	0.0114	(0.001)	0.0005	0.0012		(0.0002)		Ø 38x19 mm	CRM
BS-2931B	0.0002	0.0002	98.5	0.0076	0.0011	(0.00004)	0.0012	0.0062	(0.0004)	0.0008	0.0007		0.0005		Ø 38x19 mm	CRM
BS-3941		0.0013		0.007		0.001		(0.002)		(0.002)					Ø 35-44x19 mm	CRM
BS-LC6	(0.0004)	0.0001	99.4	0.0003	(<0.0010)	(<0.0020)	<0.0001	(<0.0020)		0.0006	(<0.0050)	0.00004	0.0004		Ø 38x19 mm	CRM
BS-LF2B	0.0003	0.001	97.8	0.008	0.001	<0.005	<0.05	0.009		0.001	<0.05		<0.05		Ø 38x19 mm	CRM
BS-XCCS-1	(0.0004)	0.0024	99.2	0.0052	(0.001)	(0.0006)	(0.0005)	0.0002		0.0015	(0.003)		0.0006		Ø 40x30 mm	CRM

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IRSID - Carbon Steel

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Al	As	Sn	Size	Type
IRSID-1636	Carbon Steel	0.47	0.4	0.78	0.029	0.037	(0.060)	0.092		0.135		(0.007)			Ø 48x30 mm	CRM
IRSID-1637	Carbon Steel	0.401	0.401	0.94	0.03	0.03	(0.033)	0.068	(0.006)	0.097	(0.002)	0.022	0.042		Ø 45x30 mm	CRM
IRSID-1642	Carbon Steel	0.418	0.418	0.929	0.031	(0.031)	(0.035)	0.068	(0.009)	0.097	(0.002)	(0.02)	(0.042)		Ø 35x30-35 mm	CRM
IRSID-1644	Carbon Steel	0.394	0.397	0.594	0.021	0.031	0.138	0.158		0.265		(0.017)			Ø 35x30-35 mm	CRM
IRSID-1645	Carbon Steel	0.388	0.388	0.61	0.0214	0.0303	0.14	0.157		0.261		0.015			Ø 45x30 mm	CRM
IRSID-1646	Carbon Steel	0.414	0.414	0.701	0.02	0.027	0.493	0.093		0.104		0.056			Ø 35x30-35 mm	CRM
IRSID-1647	Carbon Steel	0.418	0.418	0.701	0.019	(0.027)	0.49	0.093		(0.104)		(0.060)			Ø 41x30 mm	CRM
IRSID-1648	Carbon Steel	0.432	0.432	1.41	0.031	(0.07)	0.17	0.165	(0.028)	0.408		(0.004)	(0.038)	0.033	Ø 35x30-35 mm	CRM
IRSID-1649	Carbon Steel	0.384	0.384	0.93	0.045	(0.047)	0.321	0.226	0.043	0.418		0.004	0.037	0.028	Ø 35x30-35 mm	CRM
IRSID-1652	Carbon Steel	0.406	0.406	0.931	(0.017)	0.04	0.184	0.19	(0.042)	0.345		0.0013	0.038	0.03	Ø 45x30 mm	CRM
IRSID-1653	Carbon Steel	0.312	0.312	0.962	0.034	(0.039)	0.358	0.218	(0.038)	0.453		<0.004	(0.039)	0.066	Ø 35x30-35 mm	CRM

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Mg	As	B	Bi
IRSID-1654	Carbon Steel	0.27	0.354	0.979	0.036	(0.047)	0.328	0.241	(0.043)	0.441					0.04		
IRSID-1655	Carbon Steel	0.355	0.443	1.018	(0.018)	(0.06)	0.157	0.188	(0.043)	0.415			(0.004)		(0.036)		
IRSID-1656	Carbon Steel	0.477	0.477	0.73	0.027	0.013	(0.017)	(0.048)	(0.007)		(0.002)		(0.002)		0.055		
IRSID-1657	Carbon Steel	0.445	0.274	0.724	0.028	(0.013)	(0.022)	0.048	(0.008)		(0.001)		0.004		0.0051		
IRSID-1660	Carbon Steel	1.2	1.2	0.28	0.014	0.01	(0.026)	0.072		0.059			(0.009)				
IRSID-1661	Carbon Steel	0.086	0.086	1.48	0.018		(0.006)	(0.021)	(0.029)	(0.006)	(0.013)		(0.028)		(0.003)		
IRSID-1663	Carbon Steel	0.353	0.235	0.967	0.009	0.034	0.206	0.148	0.042	0.18			0.037		0.028		
IRSID-1664	Carbon Steel	0.2008	0.2008	0.472	0.0106	0.0259	0.0707	0.0547	0.0157	0.082	(0.0005)	(0.0084)	0.0193	0.00008	0.0115	(0.0002)	<0.0001
IRSID-1665	Unalloyed Steel	0.1209	0.1209	0.446	0.0104	0.0135	0.0363	0.0308	0.0047	0.0469	(0.0006)	0.0046	0.0379	0.00012	0.0067	(0.00032)	
IRSID-1667	Carbon Steel	0.679	0.679	0.668	0.0136	0.0018	0.235	0.0189	(0.0014)	0.0115	0.0012	0.0031	0.0217		0.0017	(0.0002)	
IRSID-1670	Low Carbon Steel ø37x30mm	0.0011	0.0046	0.3981	0.0128	0.0075	0.0174	0.0142	0.0009	0.0134	(0.0005)	0.0018	0.0479		0.0018	0.0007	

Analyte - Measured Values (continued)

Code	Ca	Cd	N	Nb	Pb	Sb	Se	Sn	Te	Ti	W	Zn	Zr		Size	Type
IRSID-1654								0.03							Ø 35x30-35 mm	CRM
IRSID-1655								0.046							Ø 35x30-35 mm	CRM
IRSID-1656															Ø 35x30-35 mm	CRM
IRSID-1657															Ø 42x30 mm	CRM
IRSID-1660															Ø 37x30 mm	CRM
IRSID-1661						(0.0005)		(0.0085)							40x42x30 mm	CRM
IRSID-1663								0.0143		0.051					Ø 44x30 mm	CRM
IRSID-1664	(0.0005)	<0.0001	0.0072	(0.0002)	0.0002	0.0012	<0.0001	0.0108	0.0014	0.0013	<0.002	(0.0007)	(0.0001)		Ø 37x30 mm	CRM
IRSID-1665	0.0017		0.0049		(0.0014)	(0.0008)		0.0031		(0.0008)		0.0008			Ø 37x25 mm	CRM
IRSID-1667	0.0019		0.0048	0.0002		0.0002		0.0008		0.0014					Ø 37x25 mm	CRM
IRSID-1670	0.0002		0.0016	(0.0003)				0.0017		0.0078					Ø 37x30 mm	CRM

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BAS - Carbon Steel

		Analyte - Measured Values															
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	As	B	Ca	N
BAS-SS-CRM 53	Carbon Steels - Residual Series	0.25	(0.37)	0.29	0.02	0.009	0.22	0.172	0.100					0.058			
BAS-SS-CRM 55	Carbon Steels - Residual Series	0.19	(0.25)	0.42	0.018	0.010	0.22	0.23	0.16				0.028	0.013			
BAS-SS-CRM 56	Carbon Steels - Residual Series	0.23	(0.36)	0.32	0.019	0.009				0.36	0.057	0.023	0.003		0.001		
BAS-SS-CRM 111A	Low Alloy Steels	0.0258	0.0253	0.155	0.0033	0.0054	0.0197	0.0387	0.0008	0.0171	0.0009	0.0144	0.0348	0.0017	(<0.001)	(<0.0005)	0.0034
BAS-SS-CRM 432/1	Plain Carbon Steel	0.102	0.043	1.34	0.024	0.049	0.31	0.14									
BAS-SS-CRM 434/1	Plain Carbon Steel	0.41	0.31	1.49	0.050	0.027	0.055	0.044									
BAS-SS-CRM 435/1	Plain Carbon Steel	0.52	0.54	0.41	0.033	0.031	0.14	0.060									
BAS-SS-CRM 454/1	Carbon Steel - Residual Series	0.376	0.31	0.8	0.061	0.047	0.062	0.069	0.2	0.051				0.07			

	Analyte - Measured Values (continued)									
Code	Nb	Pb	Sb	Sn	Ti	W	Zr		Size	Type
BAS-SS-CRM 53			0.004	0.024	0.018	0.25			Ø 38x19 mm	CRM
BAS-SS-CRM 55			0.002	0.046	0.013	0.12			Ø 38x19 mm	CRM
BAS-SS-CRM 56		0.014	0.005						Ø 38x19 mm	CRM
BAS-SS-CRM 111A	(0.0005)	(<0.001)	(<0.001)	0.0015	0.0004		(<0.001)		Ø 44x19 mm	CRM
BAS-SS-CRM 432/1	<0.002								Ø 38x19 mm	CRM
BAS-SS-CRM 434/1	0.078								Ø 38x19 mm	CRM
BAS-SS-CRM 435/1	0.039								Ø 38x19 mm	CRM
BAS-SS-CRM 454/1		0.0001		0.054	0.01	0.15			Ø 38x19 mm	CRM

BAS - Carbon Steel (Sets)

		Analyte - Measured Values												
Code	Description	C	Si	Mn	P	S	Cr	Ni	Co	N	Nb		Size	Type
BAS-SS-CRM 431/2	Plain Carbon Steel	0.0249	0.015	0.902	0.121	0.0065	0.049	0.040		0.0052	0.0040		Ø 38x19 mm	CRM
BAS-SS-CRM 432/2	Plain Carbon Steel	0.0065	0.0822	0.712	0.0171	0.036	0.0016	0.0196		0.0066	0.0174		Ø 38x19 mm	CRM
BAS-SS-CRM 433/2	Plain Carbon Steel	0.096	0.0071	1.188	0.011	0.0083	0.0262	0.037			0.037		Ø 38x19 mm	CRM
BAS-SS-CRM 434/2	Plain Carbon Steel	0.41	0.51	1.49	0.050	0.027	0.055	0.044		0.044	0.078		Ø 38x19 mm	CRM
BAS-SS-CRM 435/2	Plain Carbon Steel	0.489	0.328	0.0390	0.0373	0.0424	0.184	0.133	0.0116		0.134		Ø 38x19 mm	CRM

		Analyte - Measured Values														
Code	Description	C	Si	Mn	P	S	V	Co	Al	B	Nb	Pb	Sb	Zr	Size	Type
BAS-SS-CRM 456/2	Carbon Steel - Residual Series	0.1125	0.297	0.2203	0.0212	0.0221	0.0221	0.0504	0.0018	0.0015	0.0057	0.0189	0.0172	(0.013)	Ø 38x19 mm	CRM
BAS-SS-CRM 457/2	Carbon Steel - Residual Series	0.307	0.105	0.327	0.0098	0.0448	0.153	0.0217	0.087	0.0046	0.0174	0.0098	0.050	0.025	Ø 38x19 mm	CRM
BAS-SS-CRM 458/2	Carbon Steel - Residual Series	0.198	0.504	0.479	0.0140	0.0314	0.105	0.198	0.055	0.0069	0.0510	0.0140	0.089	(0.062)	Ø 38x19 mm	CRM
BAS-SS-CRM 459/2	Carbon Steel - Residual Series	0.467	0.64	0.909	0.0482	0.0481	0.0585	0.0890	0.0154	0.0110	0.0102	0.0044	0.0121	0.074	Ø 38x19 mm	CRM
BAS-SS-CRM 460/2	Carbon Steel - Residual Series	0.383	0.126	0.616	0.0374	0.0099	0.0322	0.0106	0.0240	0.0027	0.068	0.0005	0.0006	(<0.0005)	Ø 38x19 mm	CRM

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BAS - Carbon Steel (set)

		Analyte - Measured Values														
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Zr	Size	Type
BAS-SS-CRM 601/2	Plain Carbon Steel	0.102	0.263	1.3	0.034	0.024	(0.14)	(0.03)	(0.006)	(0.04)	(0.002)	(0.09)	0.033	(<0.005)	Ø 44x19 mm	CRM
BAS-SS-CRM 602/2	Plain Carbon Steel	0.94	0.0057	0.66	0.023	0.031	(0.03)	(0.02)	(0.004)	(0.06)	(0.001)	(0.007)	0.096	(<0.005)	Ø 44x19 mm	CRM
BAS-SS-CRM 603/2	Plain Carbon Steel	0.79	0.97	0.236	0.020	0.056	(0.04)	(0.03)	(0.004)	(0.05)	(0.001)	(0.01)	0.076	(<0.005)	Ø 44x19 mm	CRM
BAS-SS-CRM 604/2	Plain Carbon Steel	0.199	0.75	1.91	0.016	0.072	(0.06)	(0.09)	(0.02)	(0.07)	(0.001)	(0.01)	0.008	(<0.005)	Ø 44x19 mm	CRM
BAS-SS-CRM 605/2	Plain Carbon Steel	0.400	0.54	0.345	0.054	0.015	(0.06)	(0.05)	(0.01)	(0.06)	(0.001)	(0.008)	0.027	(0.12)	Ø 44x19 mm	CRM

MBH - Carbon Steel

		Analyte - Measured Values																
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	Al	As	N	Sn	Zn	Size	Form	Type
MBH-12X 10180 B	Residuals in mild steel	0.169	0.114	0.722	0.0101	0.0056	0.0451	0.0333	0.0062	0.0544	0.043	0.0059	0.0071	0.0065	0.0079	Ø 40x20 mm	W	CRM
MBH-12X 10180 C	Residuals in mild steel	0.171	0.147	0.803	0.015	0.02	0.0793	0.0284	0.0047	0.05	0.0198	0.0029	0.0052	0.0024	0.0005	Ø 40x20 mm	W	CRM
MBH-12X 10400 A	Residuals in mild steel	0.42	0.22	0.754	0.0137	0.0305	0.139	0.0631	0.0169	0.14	0.0323	0.0068	0.0133	0.0127	0.0033	Ø 40x15mm	W	CRM

IMZ - Carbon Steel

		Analyte - Measured Values											
Code	Description	C	Si	Mn	P	S	Cr	Ni	Cu	Al		Size	Type
IMZ-63-2	63/2 - Carbon Steel	0.4	0.16	0.63	0.017	0.009	0.16	0.13	0.14	(0.01)		Ø 40x40 mm	CRM
IMZ-64-2	64/2 - Carbon Steel	0.75	0.22	0.47	0.012	(0.005)	0.09	0.081	0.12	0.02		Ø 40x40 mm	CRM
IMZ-65-2	65/2 - Carbon Steel	1.19	0.13	0.27	0.013	0.007	0.079	0.067	0.059	0.03		Ø 40x40 mm	CRM

MQ (DSZU) - Carbon Steel

		Analyte - Measured Values															
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	As	B	Ca	N
MQ-C03	Low alloyed steel	0.029	0.145	0.089	0.0062	0.0081	(0.27)	0.146	0.031	0.206	0.004	0.013	0.014	0.008	0.0004		
MQ-C040	Low alloy steel (DSZU 083.33-2013)	0.015	0.061	0.011	0.0027	0.0029	0.009	0.006	(0.001)	0.009	(0.001)	(0.001)	0.041	(0.0002)	0.0004	0.0026	0.0071
MQ-C041	Low alloy steel (DSZU 083.33-2013)	0.107	0.63	1.35	0.0126	0.0055	0.067	0.04	0.005	0.059	0.003	0.003	0.017	0.0033	(0.0004)	0.0024	0.0046

	Analyte - Measured Values (continued)										
Code	Nb	Pb	Sb	Sn	Ti	W	Zn	Zr		Size	Type
MQ-C03	(0.002)	(0.009)	(0.003)	0.011	0.002	(0.009)	(0.0037)	(0.0006)		Ø 40x30 mm	CRM
MQ-C040	(0.0004)			(0.0001)	0.001	(0.002)				Ø 40x25 mm	CRM
MQ-C041	0.0017			0.0038	0.0019	(0.003)				Ø 40x25 mm	CRM

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NCS - Carbon Steel

		Analyte - Measured Values											
Code	Description	C	Si	Mn	P	S	Cr	Ni	Cu	Al		Size	Type
NCS HS11763A	Carbon steel	0.490	0.376	0.652	0.025	0.013	0.019	0.026	0.027	0.098		Ø 38x40 mm	CRM
NCS HS20744	Carbon Steel (08F)	0.068	0.022	0.331	0.018	0.03						Ø 35x40 mm	CRM

NCS - Carbon Steel (Sets)

		Analyte - Measured Values														
Code	Description	C	Si	Mn	P	S	Cr	Ni	Cu	V	Al	Al(s)	Ti	Ti(s)	Size	Type
NCS HS11719-1	Carbon Steel (Set of 6 only)	0.963	0.241	0.586	0.022	0.01	0.131	0.206	0.111	0.035	0.019	0.017	0.016	0.015	Ø 38x30 mm	CRM
NCS HS11719-2	Carbon Steel (Set of 6 only)	0.042	0.154	0.048	0.105	0.0053	0.247	0.432	0.411	0.207	0.296	0.292	0.161	0.154	Ø 38x30 mm	CRM
NCS HS11719-3	Carbon Steel (Set of 6 only)	0.435	0.163	1.14	0.045	0.02	0.086	0.114	0.16	0.099	0.019	0.016	0.024	0.023	Ø 38x30 mm	CRM
NCS HS11719-4	Carbon Steel (Set of 6 only)	0.14	0.526	1.3	0.084	0.02	0.198	0.344	0.276	0.153	0.16	0.155	0.132	0.128	Ø 38x30 mm	CRM
NCS HS11719-5	Carbon Steel (Set of 6 only)	1.19	0.751	2.2	0.011	0.013	0.439	0.164	0.046	0.0082	0.036	0.034	0.029	0.028	Ø 38x30 mm	CRM
NCS HS11719-6	Carbon Steel (Set of 6 only)	0.006	0.014	0.163	0.0053	0.035	0.021	0.013	0.0032	0.363	0.0021	0.0016	0.001	0.0008	Ø 38x30 mm	CRM

		Analyte - Measured Values											
Code	Description	C	Si	Mn	P	S	Cr	Ni	Cu	Al		Size	Type
NCS HS39701-1	Carbon steel (Set only)	0.108	0.029	1.15	0.0038	0.07	0.379	0.252	0.276	0.073		Ø 33x35 mm	CRM
NCS HS39701-2	Carbon steel (Set only)	0.172	0.103	1.07	0.014	0.012	0.241	0.21	0.14			Ø 33x35 mm	CRM
NCS HS39701-3	Carbon steel (Set only)	0.29	0.156	0.62	0.032	0.026	0.153	0.181	0.193			Ø 33x35 mm	CRM
NCS HS39701-4	Carbon steel (Set only)	0.3	0.247	0.86	0.023	0.04	0.092	0.065	0.097			Ø 33x35 mm	CRM
NCS HS39701-5	Carbon steel (Set only)	0.44	0.46	0.41	0.039	0.04	0.275	0.062	0.325	0.4		Ø 33x35 mm	CRM
NCS HS39701-6	Carbon steel (Set only)	0.58	0.374	0.163	0.054	0.0033	0.34	0.343	0.38	0.463		Ø 33x35 mm	CRM

VS - Carbon Steel

		Analyte - Measured Values																
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Nb	Ti	W	Size	Type
VS-RG25/1	Steel	0.196	0.1	0.29	0.019	0.0088	0.06	0.037	0.01	0.065	0.011	0.012	0.067	0.016	0.055		Ø 45-50 x 28-32 mm	CRM
VS-RG26/1	Steel	0.034	0.046	0.058	0.06	0.0076	0.024	0.074	0.045	0.007	0.0113	0.021	0.73	0.0056	0.1		Ø 45-50 x 28-32 mm	CRM
VS-RG27	Steel	0.3	0.42	0.97	0.054	0.0032	1.53	0.135	0.222	0.188	0.064	0.071	0.88			0.17	Ø 45-50 x 28-32 mm	CRM
VS-RG27/1	Steel	0.29	0.28	0.74	0.044	0.0043	1.83	0.142	0.191	0.208	0.072	0.025	1.07			0.17	Ø 45-50 x 28-32 mm	CRM
VS-RG28	Steel	0.7	1.161	0.84	0.031		0.135	0.154	0.09	0.05	0.022		0.066	0.029	0.0041	0.006	Ø 45-50 x 28-32 mm	CRM
VS-RG28/1	Steel	0.68	2.36	0.91	0.031	0.0071	0.194	0.168	0.104	0.04	0.035	0.072	0.068	0.041	0.022	0.0041	Ø 45-50 x 28-32 mm	CRM
VS-RG30	Steel	0.38	0.45	0.357		0.013	3.06	0.62	0.62	0.161	0.63	0.5		0.139		0.91	Ø 45-50 x 28-32 mm	CRM
VS-RG30/1	Steel	0.388	0.61	0.425		0.022	3.13	0.74	0.58	0.09	0.7	0.355	0.089	0.103	0.037	0.89	Ø 45-50 x 28-32 mm	CRM

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Miscellaneous - Carbon Steel

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Al(s)	As	B	Ca
NILAB-100LA(D)	C-Steel	1.002		0.333	0.012	0.018	1.517	0.027	0.012	0.019	0.004	0.007	0.005		0.004		
SUS-RMFE1/5	Steel, unalloyed	0.011	0.004	0.049	0.003	0.004	0.013	0.022	0.0019	0.0099	<0.0005	0.002	0.003		0.002	<0.0005	<0.001
HR-FE2014 N	Low Alloy Steel	0.91	0.24	1.97	0.012	0.004	0.35	0.02	0.01	0.01	0.066		0.016				
SPL-LA-1B-10MM	Low alloy steel QCM	0.005	0.02	0.13	0.004	0.017	0.042	0.014	0.007	0.01	0.004	(0.002)	0.003		(0.002)	0.01	0.0016
SPL-LA-1B-25MM	Low alloy steel QCM	0.005	0.02	0.13	0.004	0.017	0.042	0.014	0.007	0.01	0.004	(0.002)	0.003		(0.002)	0.01	0.0016
IPT-503	Plain Carbon Steel (AISI 1045)	0.456	0.218	0.682	0.027	0.027	0.16	0.063	0.02	0.129		0.006	0.018				
IPT-504	Plain Carbon Steel (SAE 1541)	0.395	0.232	1.474	0.019	0.031	0.098	0.048	0.009	0.096		0.0077	0.032	0.028			

Analyte - Measured Values (continued)

Code	N	Nb	Pb	Sb	Sn	Ti	W	Zr		Size	Type
NILAB-100LA(D)	0.0046					0.0007				Ø 34x20 mm	CRM
SUS-RMFE1/5	0.002	<0.005	<0.002		0.0008	<0.0005	0.002	<0.005		Ø 40x40 mm	RM
HR-FE2014 N	0.0052									Ø 35x20 mm	RM
SPL-LA-1B-10MM	0.003	(0.001)	(0.0007)	(0.002)	(0.001)	(0.001)	0.01	(0.002)		Ø 35-43x10 mm	RM
SPL-LA-1B-25MM	0.003	(0.001)	(0.0007)	(0.002)	(0.001)	(0.001)	0.01	(0.002)		Ø 35-43x25 mm	RM
IPT-503	0.0082		0.008			0.0011				Ø 35x20 mm	CRM
IPT-504	0.0078	(0.012)				0.0011				Ø 35x20 mm	CRM

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ARMI - Low Alloyed Steel

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Mg	As
IARM-30H-G	Carbon, Low Alloy Steel, AISI 4140 / G41400	0.425	0.253	0.937	0.015	0.022	0.97	0.063	0.199	0.131	0.0040	0.0071	0.020	(0.001)	0.0046
IARM-30H-X	Carbon, Low Alloy Steel, AISI 4140 / G41400	0.425	0.253	0.937	0.015	0.022	0.97	0.063	0.199	0.131	0.0040	0.0071	0.020	(0.001)	0.0046
IARM-30J-G	Carbon, Low Alloy Steel, AISI 4140 / G41400	0.405	0.256	0.884	0.01	0.036	0.972	0.187	0.205	0.173	0.0045	0.0098	0.023		0.005
IARM-30J-X	Carbon, Low Alloy Steel, AISI 4140 / G41400	0.405	0.256	0.884	0.01	0.036	0.972	0.187	0.205	0.173	0.0045	0.0098	0.023		0.005
IARM-31G-G	Carbon, Low Alloy Steel, AISI 4340 / G43400	0.4	0.262	0.689	0.0136	0.013	0.82	1.814	0.223	0.183	0.0036	0.0083	0.0214		0.004
IARM-31G-X	Carbon, Low Alloy Steel, AISI 4340 / G43400	0.4	0.262	0.689	0.0136	0.013	0.82	1.814	0.223	0.183	0.0036	0.0083	0.0214		0.004
IARM-33D-G	Low-Alloy Steel, AISI 4620 / UNS G46200	0.209	0.207	0.593	0.009	0.023	0.139	1.78	0.229	0.072	0.0020	0.008	0.026		0.0035
IARM-33D-X	Low-Alloy Steel, AISI 4620 / UNS G46200	0.209	0.207	0.593	0.009	0.023	0.139	1.78	0.229	0.072	0.002	0.008	0.026		0.0035
IARM-34C-G	Low-Alloy Steel, AISI 6150 / UNS G61500	0.5	0.3	0.74	0.009	0.0012	0.92	0.085	0.022	0.077	0.206	0.006	0.068		0.0025
IARM-34C-X	Low-Alloy Steel, AISI 6150 / UNS G61500	0.5	0.3	0.74	0.009	0.0012	0.92	0.085	0.022	0.077	0.206	0.006	0.068		0.0025
IARM-35L-G	Carbon, Low Alloy Steel, 1¼Cr ½Mo / UNS K11572	(0.119)	(0.679)	(0.54)	(0.007)	(0.0139)	(1.35)	(0.070)	(0.61)	(0.124)	(0.0037)	(0.0068)	(0.017)	(0.002)	(0.004)
IARM-35L-X	Carbon, Low Alloy Steel, 1¼Cr ½Mo / UNS K11572	(0.119)	(0.679)	(0.54)	(0.007)	(0.0139)	(1.35)	(0.070)	(0.61)	(0.124)	(0.0037)	(0.0068)	(0.017)	(0.002)	(0.004)
IARM-36C-G	Low-Alloy Steel, 2¼Cr 1Mo / UNS K21590, Ø38x19mm	0.147	0.255	0.489	0.008	0.014	0.147	0.085	0.96	0.143	0.0061	0.008	0.017	(0.002)	0.005
IARM-37C-G	Carbon, Low Alloy Steel, 5Cr ½Mo / K42544	0.096	0.31	0.408	0.014	0.004	4.34	0.148	0.5	0.121	0.017	0.015	0.01		0.009
IARM-37C-X	Carbon, Low Alloy Steel, 5Cr ½Mo / K42544	0.096	0.31	0.408	0.014	0.004	4.34	0.148	0.5	0.121	0.017	0.015	0.01		0.009

Analyte - Measured Values (continued)

Code	B	Bi	Ca	Cd	N	Nb	Pb	Sb	Se	Sn	Ta	Ti	W	Zn	Zr	Size	Form	Type
IARM-30H-G	0.0007	(0.002)	(0.0009)		0.0081	0.003	0.0005	0.0013	(<0.005)	0.008	(0.004)	0.0024	0.007	(0.002)	0.002	Ø 38x19 mm		CRM
IARM-30H-X	0.0007	(0.002)	(0.0009)		0.0081	0.003	0.0005	0.0013	(<0.005)	0.008	(0.004)	0.0024	0.007	(0.002)	0.002	Ø 38x3 mm		CRM
IARM-30J-G					0.01	0.0016				0.0109		0.0013	0.005			Ø 38x19 mm		CRM
IARM-30J-X					0.01	0.0016				0.0109		0.0013	0.005			Ø 38x3 mm		CRM
IARM-31G-G	0.0004				0.0069	0.0023				0.0077		0.0015	0.004		0.0012	Ø 38x19 mm		CRM
IARM-31G-X	0.0004				0.0069	0.0023				0.0077		0.0015	0.004		0.0012	Ø 38x3 mm		CRM
IARM-33D-G	0.0002		(0.0003)		0.0053	0.002	(<0.001)	(0.002)		0.005		0.003	(<0.005)		(<0.002)	Ø 38x19 mm		CRM
IARM-33D-X	0.0002		0.0003		0.0053	0.002	<0.001	0.002		0.005		0.003	<0.005		<0.002	Ø 38x3 mm	W	CRM
IARM-34C-G	0.0003		(0.0004)		0.0029	0.0043	(0.0004)	(0.001)		0.0056		0.0045	(0.003)		(0.001)	Ø 38x19 mm	W	CRM
IARM-34C-X	0.0003		(0.0004)		0.0029	0.0043	(0.0004)	(0.001)		0.0056		0.0045	(0.003)		(0.001)	Ø 38x3 mm	W	CRM
IARM-35L-G	(0.0004)	(0.0009)	(<0.002)	(<0.001)	(0.007)	(0.003)	(<0.001)	(0.0025)	(<0.002)	(0.0088)	(<0.002)	(0.002)	(0.003)	(<0.003)	(<0.005)	Ø 38x19 mm		CRM
IARM-35L-X	(0.0004)	(0.0009)	(<0.002)	(<0.001)	(0.007)	(0.003)	(<0.001)	(0.0025)	(<0.002)	(0.0088)	(<0.002)	(0.002)	(0.003)	(<0.003)	(<0.005)	Ø 38x3 mm		prov.
IARM-36C-G	(0.0003)	(<0.001)	(0.0003)	(<0.001)	0.008	0.004	(0.0007)	(0.003)	(<0.002)	0.008	(<0.002)	(0.0019)	(0.0045)	(<0.002)	(0.003)	Ø 38x19 mm		CRM
IARM-37C-G					0.008	0.004				0.009		0.0025	0.012			Ø 38x19 mm		CRM
IARM-37C-X					0.008	0.004				0.009		0.0025	0.012			Ø 38x3 mm		CRM

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ARMI - Low Alloyed Steel

		Analyte - Measured Values													
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Mg	As
IARM-49E-G	Carbon, Low Alloy Steel, E52100 / G52986	1.03	0.248	0.364	0.006	0.002	1.43	0.043	0.017	0.076	0.066	0.006	0.024		0.0029
IARM-49E-X	Carbon, Low Alloy Steel, E52100 / G52986	1.03	0.248	0.364	0.006	0.002	1.43	0.043	0.017	0.076	0.066	0.006	0.024		0.0029
IARM-143F-G	Low-Alloy Steel, AISI 4130 / UNS G41300, Ø38x19mm	0.308	0.23	0.573	0.011	0.0177	0.865	0.088	0.163	0.221	0.0046	0.01	0.026	(<0.005)	0.0051
IARM-143F-X	Low-Alloy Steel, AISI 4130 / UNS G41300, Ø38x3mm	0.308	0.23	0.573	0.011	0.0177	0.865	0.088	0.163	0.221	0.0046	0.01	0.026	(<0.005)	0.0051
IARM-155F-G	Carbon, Low Alloy Steel, AISI 4820 / G48200, Ø38x19mm	0.199	0.223	0.617	0.008	0.013	0.144	3.36	0.244	0.219	0.0015	0.012	0.0356	(<0.001)	0.0006
IARM-155F-X	Carbon, Low Alloy Steel, AISI 4820 / G48200, Ø38x3mm	0.199	0.223	0.617	0.008	0.013	0.144	3.36	0.244	0.219	0.0015	0.012	0.0356	(<0.001)	0.0006
IARM-168A-G	SCLA, CLA5	0.003	0.46	0.12	0.03	0.064	0.004	2.32	0.69	0.009	0.004	0.003	0.19		(0.003)
IARM-168A-X	SCLA, CLA5	0.003	0.46	0.12	0.03	0.064	0.004	2.32	0.69	0.009	0.004	0.003	0.19		(0.003)
IARM-172A-X	SCLA, CLA9	0.78	1.29	0.01	0.007	0.004	3.52	0.025	0.014	0.4	0.003	0.006	0.39		(0.005)
IARM-172A-G	SCLA, CLA9	0.78	1.29	0.01	0.007	0.004	3.52	0.025	0.014	0.4	0.003	0.006	0.39		(0.005)

	Analyte - Measured Values (continued)																		
Code	B	Bi	Ca	Cd	N	Nb	Pb	Sb	Se	Sn	Ta	Ti	W	Zn	Zr		Size	Form	Type
IARM-49E-G					0.003	0.003				0.0065		0.006					Ø 38x19 mm		final
IARM-49E-X					0.003	0.003				0.0065		0.006					Ø 38x3 mm		final
IARM-143F-G	(<0.003)	(<0.02)	(<0.01)		0.0098	0.0015	(<0.003)	(<0.009)	(<0.005)	0.01	(<0.008)	0.0012	0.003	(<0.005)			Ø 38x19 mm		CRM
IARM-143F-X	(<0.003)	(<0.02)	(<0.01)		0.0098	0.0015	(<0.003)	(<0.009)	(<0.005)	0.01	(<0.008)	0.0012	0.003	(<0.005)			Ø 38x3 mm		CRM
IARM-155F-G	(0.0004)		(<0.002)	(<0.001)	0.005	0.0016	(<0.006)	(<0.003)		0.0084	(<0.005)	0.002	0.004	(<0.001)			Ø 38x19 mm		CRM
IARM-155F-X	(0.0004)		(<0.002)	(<0.001)	0.005	0.0016	(<0.006)	(<0.003)		0.0084	(<0.005)	0.002	0.004	(<0.001)			Ø 38x3 mm		CRM
IARM-168A-G	0.0004				0.0002	0.003	(<0.01)			0.003		0.004	0.52				Ø 38x19 mm	W	CRM
IARM-168A-X	0.0004				0.0002	0.003	(<0.01)			0.003		0.004	0.52				Ø 38x3 mm	W	CRM
IARM-172A-X	0.0003		(0.0001)		0.0004	0.004	(<0.01)			0.003		0.003	0.038		(<0.005)		Ø 38x3 mm	W	CRM
IARM-172A-G	0.0003		(0.0001)		0.0004	0.004	(<0.01)			0.003		0.003	0.038		(<0.005)		Ø 38x19 mm	W	CRM

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ARMI - Low Alloyed Steel

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Mg	As
IARM-183C-G	Low-Alloy Steel, 12L14 / UNS G12144	0.079	(0.006)	1.06	0.078	0.31	0.055	0.019	0.01	0.016	0.002	(0.002)	0.0021		0.003
IARM-183C-X	Low-Alloy Steel, 12L14 / UNS G12144	0.079	0.004	1.06	0.078	0.31	0.055	0.019	0.01	0.016	0.002	(0.002)	0.0021		0.003
IARM-199C-G	Low-Alloy Steel, AISI 1144 / UNS G11440	0.469	0.21	1.55	0.0155	0.281	0.19	0.085	0.0293	0.193	0.0037	0.007	0.0019	(0.0002)	0.0059
IARM-199C-X	Low-Alloy Steel, AISI 1144 / UNS G11440	0.469	0.21	1.55	0.0155	0.281	0.19	0.085	0.0293	0.193	0.0037	0.007	0.0019	(0.0002)	0.0059
IARM-229B-X	Low-Alloy Steel, C Â½Mo / UNS K12822	0.22	0.329	0.858	0.0073	0.0106	0.017	0.03	0.495	0.0153	0.0059	0.0116	0.025	(<0.001)	0.002
IARM-229B-G	Low-Alloy Steel, C Â½Mo / UNS K12822	0.22	0.329	0.858	0.0073	0.0106	0.017	0.03	0.495	0.0153	0.0059	0.0116	0.025	(<0.001)	0.002
IARM-252D-G	Carbon, Low Alloy Steel, AISI 8740 / G87400, Ø38x19mm	0.423	0.256	0.842	0.0075	0.0128	0.468	0.424	0.204	0.27	0.0022	0.0078	0.024	(0.0002)	0.0053
IARM-252D-X	Carbon, Low Alloy Steel, AISI 8740 / G87400, Ø38x3mm	0.423	0.256	0.842	0.0075	0.0128	0.468	0.424	0.204	0.27	0.0022	0.0078	0.024	(0.0002)	0.0053
IARM-299A-G	Low-Alloy Steel, D6-AC / UNS K22925	0.469	0.22	0.7	0.008	0.002	1.03	0.57	0.99	0.1	0.12	0.0054	0.092		0.003
IARM-299A-X	Low-Alloy Steel, D6-AC / UNS K22925	0.469	0.22	0.7	0.008	0.002	1.03	0.57	0.99	0.1	0.12	0.0054	0.092		0.003
IARM-323A-X	Low-Alloy Steel, Grade 60	0.41	0.19	1.14	0.0178	0.061	0.15	0.084	0.023	0.3	0.02	0.007	0.003	0.0004	0.006

Analyte - Measured Values (continued)

Code	B	Bi	Ca	N	Nb	Pb	Sb	Se	Sn	Ta	Ti	W	Zn	Zr	Size	Form	Type
IARM-183C-G	0.0011			0.0049	0.001	0.18	(0.001)		0.003		0.0009	(0.002)		0.001	Ø 38x19 mm	W	CRM
IARM-183C-X	0.0011			0.0049	0.001	0.18	(0.001)		0.003		0.0009	(0.002)		0.001	Ø 38x3 mm	W	CRM
IARM-199C-G	0.0012		(0.0011)	0.007	0.0016	0.001	(0.003)	(<0.006)	0.0084	(0.0007)	0.0016	0.0023	(0.0006)	(<0.004)	Ø 38x19 mm	W	CRM
IARM-199C-X	0.0012		(0.0011)	0.007	0.0016	0.001	(0.003)	(<0.006)	0.0084	(0.0007)	0.0016	0.0023	(0.0006)	(<0.004)	Ø 38x3 mm	W	CRM
IARM-229B-X	0.0006	(<0.0005)	(0.0003)	0.0072	0.0019	(0.0005)	(0.0006)	(<0.0012)	0.0012	(0.003)	0.0019	0.003	(<0.003)	0.0008	Ø 38x3 mm	W	CRM
IARM-229B-G	0.0006	(<0.0005)	(0.0003)	0.0072	0.0019	(0.0005)	(0.0006)	(<0.0012)	0.0012	(0.003)	0.0019	0.003	(<0.003)	0.0008	Ø 38x19 mm	W	CRM
IARM-252D-G	0.0002	(0.0005)	(0.001)	0.0068	0.0013	0.0004	0.0024	(<0.003)	0.012	(<0.005)	0.0012	0.004	0.0005	0.0013	Ø 38x19 mm		CRM
IARM-252D-X	0.0002	(0.0005)	(0.001)	0.0068	0.0013	0.0004	0.0024	(<0.003)	0.012	(<0.005)	0.0012	0.004	0.0005	0.0013	Ø 38x3 mm		CRM
IARM-299A-G	0.0003		(0.001)	0.0028	0.006	(0.001)	(0.002)		0.0055		0.0038	0.01		(0.001)	Ø 38x19 mm	W	CRM
IARM-299A-X	0.0003		(0.001)	0.0028	0.006	(0.001)	(0.002)		0.0055		0.0038	0.01		(0.001)	Ø 38x3 mm	W	CRM
IARM-323A-X	0.0003	0.0001	0.0008	0.0105	0.0012	0.001	0.002		0.011	0.005	0.0012	0.004		0.001	Ø 38x3 mm	W	CRM

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ARMI - Low Alloyed Steel

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Mg	As	B
IARM-324A-G	Low-Alloy Steel, Grade M10	0.99	0.163	1.01	0.009	0.028	0.42	0.081	0.022	0.22	0.0017	0.007	0.002		0.006	0.0004
IARM-324A-X	Low-Alloy Steel, Grade M10	0.99	0.163	1.01	0.009	0.028	0.42	0.081	0.022	0.22	0.0017	0.007	0.002		0.006	0.0004
IARM-330A-G	Low-Alloy Steel, AISI 4330 / UNS K23080	0.299	0.273	1	(0.005)	(0.001)	0.9	1.8	0.404	0.074	0.071	0.0063	0.045		(0.003)	0.0003
IARM-330B-G	Carbon, Low Alloy Steel, AISI 4330 / K23080	0.302	0.277	0.82	0.0075	0.003	0.807	1.856	0.406	0.084	0.076	0.013	0.023			
IARM-330B-X	Carbon, Low Alloy Steel, AISI 4330 / K23080	0.302	0.277	0.82	0.0075	0.003	0.807	1.856	0.406	0.084	0.076	0.013	0.023			
IARM-330A-X	Low-Alloy Steel, AISI 4330 / UNS K23080	0.299	0.273	1	0.005	0.001	0.9	1.8	0.404	0.074	0.071	0.0063	0.045		0.003	0.0003
IARM-340A-G	Low-Alloy Steel, AISI 300M / UNS K44220	0.414	1.63	0.755	0.011	0.001	0.84	1.8	0.39	0.103	0.064	0.006	0.062	(0.0002)	0.004	0.0004
IARM-340A-X	Low-Alloy Steel, AISI 300M / UNS K44220	0.414	1.63	0.755	0.011	0.001	0.84	1.8	0.39	0.103	0.064	0.006	0.062	(0.0002)	0.004	0.0004
IARM-341A-G	Low-Alloy Steel, HP9-4-30 / UNS K91283	0.298	0.1	0.226	0.0038	0.0008	0.99	7.16	1.01	0.143	0.086	4.44	0.032		0.003	0.0005
IARM-341A-X	Low-Alloy Steel, HP9-4-30 / UNS K91283	0.298	0.1	0.226	0.0038	0.0008	0.99	7.16	1.01	0.143	0.086	4.44	0.032		0.003	0.0005
IARM-342A-G	Low-Alloy Steel, Hy-Tuff / UNS K32550	0.257	1.63	1.37	0.006	0.0051	0.38	1.76	0.42	0.11	0.023	0.008	0.019	(0.0002)	0.006	0.0004
IARM-342A-X	Low-Alloy Steel, Hy-Tuff / UNS K32550	0.257	1.63	1.37	0.006	0.0051	0.38	1.76	0.42	0.11	0.023	0.008	0.019	(0.0002)	0.006	0.0004

Analyte - Measured Values (continued)

Code	Ca	N	Nb	Pb	Sb	Sn	Ti	W	Zn	Zr		Size	Form	Type
IARM-324A-G	0.0009	0.0082	0.014		(0.002)	0.011	0.0016	(0.003)		(0.001)		Ø 38x19 mm	W	CRM
IARM-324A-X	0.0009	0.0082	0.014		(0.002)	0.011	0.0016	(0.003)		(0.001)		Ø 38x3 mm	W	CRM
IARM-330A-G	0.001	0.0024	(0.003)	(0.0004)	(0.001)	0.0039	0.006	(0.004)		0.0015		Ø 38x19 mm	W	CRM
IARM-330B-G			0.002			0.0047		0.024				Ø 38x19 mm		CRM
IARM-330B-X			0.002			0.0047		0.024				Ø 38x3 mm		CRM
IARM-330A-X	0.001	0.0024	0.003	(0.0004)	(0.001)	0.0039	0.006	(0.004)		0.0015		Ø 38x3 mm	W	CRM
IARM-340A-G	(0.0004)	0.002	0.015	(0.001)	0.0021	0.005	0.0098	0.005	(0.0001)	(0.002)		Ø 38x19 mm	W	CRM
IARM-340A-X	(0.0004)	0.002	0.015	(0.001)	0.0021	0.005	0.0098	0.005	(0.0001)	(0.002)		Ø 38x3 mm	W	CRM
IARM-341A-G	0.0011	0.0025	0.005	(0.001)	(0.001)	0.005	0.003	(0.01)	(0.0002)	(0.003)		Ø 38x19 mm	W	CRM
IARM-341A-X	0.0011	0.0025	0.005	(0.001)	(0.001)	0.005	0.003	(0.01)	(0.0002)	(0.003)		Ø 38x3 mm	W	CRM
IARM-342A-G	(0.0001)	0.0102	(0.002)	0.0008	0.0021	0.021	0.0028	(0.005)	(0.001)	(0.002)		Ø 38x19 mm	W	CRM
IARM-342A-X	(0.0001)	0.0102	(0.002)	0.0008	0.0021	0.021	0.0028	(0.005)	(0.001)	(0.002)		Ø 38x3 mm	W	CRM

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ECRM - Low Alloyed Steel

		Analyte - Measured Values													
Code	**Description**	**C**	**Si**	**Mn**	**P**	**S**	**Cr**	**Ni**	**Mo**	**Cu**	**V**	**Co**	**Al**	**As**	**B**
ECRM-D 035-2-D	1.3% Carbon steel - disc	1.277	0.216	0.305	0.0038	0.011	0.0104	0.019	0.0056	0.0085			0.0193	0.0017	
ECRM-B 058-2-D	0,15% Sulfur steel (BS 1429) - disc	0.424	0.108	1.186	0.0098	0.1712	0.1211	0.199	0.0589	0.261				0.0095	
ECRM-B 059-2-D	0.7% Carbon steel (BS EN 10277) - disc	0.721	0.188	0.495	0.0046	0.0084	0.009	0.0198	0.0018	0.0074			0.00045		
ECRM-B 064-2-D	Nb/Ti Interstitial free steel (EN 10130 and EN 10142 - disc	0.0026	0.0065	0.1641				0.0115	0.00077	0.0077	0.00015	0.0027		0.0036	
ECRM-B 085-1-D	Unalloyed steel - disc	0.067	0.008	0.977	0.062	0.336				0.291	0.0021	0.019			
ECRM-B 086-1-D	Unalloyed steel - disc	0.297	0.206	0.879	0.024	0.037	0.15	0.168		0.32				0.023	
ECRM-B 087-1-D	0.15% Carbon Steel - disc	0.174	0.263	0.671	0.01	0.046	0.078	0.118	0.021	0.171		0.015		0.024	
ECRM-B 186-1-D	Alloy steel - disc	0.61	1.719	0.87	0.022	0.035	0.218	0.19	0.048	0.281			0.014		
ECRM-D 187-2(D)	Low alloy cementation steeel	0.2038	0.2111	1.257	0.0066	0.03	1.132	0.1755	0.0623	0.1288	0.0122	0.0112	0.0223	0.0057	0.00048
ECRM-D 192-1-D	Reactor steel, No. 1.6310 - disc	0.1875	0.219	1.377	0.0029	0.001	0.0717	0.755	0.482	0.0453		0.0055	0.0306		
ECRM-D 193-1-D	Reactor steel - disc	0.14	0.4	0.97	0.007	0.009	0.18	1.18	0.35	0.6	(0.002)	0.007	0.025	0.0062	
ECRM-D 194-1-D	Low sulfur steel - disc (35 mm x 39 mm)	0.1532	0.431	1.188	0.0097	0.00059	0.733	0.3417	0.2857	0.0751	0.0243		0.0837	0.0042	0.002
ECRM-D 194-2-D	1.8928 - Low sulfur steel - disc	0.1694	0.2974	1.282	0.0137	0.00049	0.760	0.3316	0.402	0.0313	0.00161	0.00328	0.0669	0.00208	0.00155
ECRM-B 195-1-D	Chromium-molybdenum-nickel steel - disc	0.757	0.466	0.571	0.017	0.012	1.56	0.33	0.77	0.036	0.31				
ECRM-S 197-1-D	Low alloy steel, No. 1.7321 - disc	0.219	0.275	0.792	0.0073	0.0232	0.451	0.148	0.402	0.152		0.0135	0.0313	0.0083	

	Analyte - Measured Values (continued)										
Code	**Ca**	**N**	**Nb**	**Pb**	**Sb**	**Sn**	**Ti**	**Zn**		**Size**	**Type**
ECRM-D 035-2-D		0.023					0.003			Ø 40x20 mm	CRM
ECRM-B 058-2-D		0.0107								Ø 38x30 mm	CRM
ECRM-B 059-2-D		0.0051								Ø 38x30 mm	CRM
ECRM-B 064-2-D		0.0026	0.0146	0.00018		0.00051				Ø 38x30 mm	CRM
ECRM-B 085-1-D				0.001	0.0073			0.0025		Ø 38x30 mm	CRM
ECRM-B 086-1-D						0.026				Ø 38x25 mm	CRM
ECRM-B 087-1-D					0.0046	0.017				Ø 38x30 mm	CRM
ECRM-B 186-1-D										Ø 38x30 mm	CRM
ECRM-D 187-2(D)		0.0105				0.0237				Ø 39x20 mm	CRM
ECRM-D 192-1-D		0.0118								Ø 35-39 x 20-35 mm	CRM
ECRM-D 193-1-D		0.0108	0.0232				(0.0013)			Ø 40x35 mm	CRM
ECRM-D 194-1-D	0.0026	0.0115								Ø 35x39 mm	CRM
ECRM-D 194-2-D		0.00319	0.0290				0.00322			Ø 38x28 mm	CRM
ECRM-B 195-1-D		0.01								Ø 38x30 mm	CRM
ECRM-S 197-1-D		0.0114				0.0097	0.0005			Ø 38x25 mm	CRM

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NIST - Low Alloyed Steel

		Analyte - Measured Values														
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Ce	Mg	Ag
NIST-1138A	Cast steel (No. 1)	0.11	0.25	0.35	0.035	0.056	0.13	0.1	0.05	0.09	0.02					
NIST-1173	Ni-Cr-Mo-V steel	0.423	1.28	0.19	0.033	0.092	2.7	4.06	1.5	0.204	0.42					
NIST-1225	Low alloy steel (AISI 4130)	0.274	0.221	0.48	0.007	0.014	0.91	0.018	0.166		0.004					
NIST-1226	Low alloy steel	0.085	0.231	0.274	0.0022	0.0044	0.467	5.42	0.446	0.125	0.0018	0.029	0.054			
NIST-1227	Low alloy steel, basic open hearth, 1% C	0.97	0.215	0.402	0.014	0.026	0.019	0.007	0.003	0.006	0.002	0.003				
NIST-1264A	LA Steel, High Carbon (mod.)	0.87	0.067	0.25	0.01	0.025	0.06	0.14	0.49	0.25	0.1	0.15	(0.008)	0.0002	0.00015	(0.00002)
NIST-1269	Line Pipe (AISI 1526 mod.)	0.298	0.189	1.35	0.012	0.0061	0.201	0.108	0.036	0.095	0.004		0.016			
NIST-1271	Low alloy steel, HSLA-100	0.064	0.334	0.73	0.005	0.0013	0.552	3.34	0.543	1.48	0.003		0.02			

	Analyte - Measured Values (continued)																		
Code	As	Au	B	Bi	Ca	Fe	Ga	Hf	La	N	Nb	Nd	Pb	Pr	Sb	Se	Sn	Sr	Ta
NIST-1138A																			
NIST-1173																			
NIST-1225																			
NIST-1226											(0.005)		(0.0001)				(0.003)		
NIST-1227							0.022												
NIST-1264A	0.05	0.0001	(0.011)	(0.0009)	0.00004	(96.7)		(0.0013)	0.00007	(0.0032)	0.15	0.00007	0.024	(0.00003)	0.034	0.00021	(0.008)	0.0005	0.11
NIST-1269													0.005						
NIST-1271											0.025								

	Analyte - Measured Values (continued)								
Code	Te	Ti	W	Zn	Zr		Size	Form	Type
NIST-1138A							32x32x13 mm	C	CRM
NIST-1173							Ø 32x19 mm		CRM
NIST-1225							Ø 32x19 mm		CRM
NIST-1226		0.0021	(0.005)		(0.01)		Ø 32x19 mm		CRM
NIST-1227							Ø 32x19 mm		CRM
NIST-1264A	0.00018	0.24	0.1	(0.001)	0.069		Ø 31x19 mm		CRM
NIST-1269							Ø 32x19 mm		CRM
NIST-1271							Ø 32x19 mm		CRM

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NIST - Low Alloyed Steel

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Ce	Mg	Ag	As
NIST-1761A	Low Alloy Steel	(1.05)	0.182	0.679	0.042	0.037	0.222	1.981	0.103	0.298	0.054	(0.027)	0.055				(0.011)
NIST-1762A	Low Alloy Steel	0.341	0.351	1.912	0.0346	0.0295	0.923	1.156	0.353	0.1186	0.2010	0.0616	0.0706				0.0173
NIST-1763A	Low Alloy Steel	0.202	0.633	1.584	0.0123	0.022	0.498	0.513	0.49	0.042	0.307	0.093	0.0435				0.055
NIST-1764A	Low Alloy Steel	0.592	0.0595	1.193	0.021	0.0118	1.468	0.2006	0.2007	0.5178	0.1063	0.012	0.0098				0.01
NIST-1765	Low Alloy Steel	0.006	(0.004)	0.144	0.0052	0.0038	0.051	0.154	0.005	0.0013	0.004	0.0012	(0.006)			0.0002	0.001
NIST-1766	Low Alloy Steel	0.015	0.010	0.067	0.002	0.0024	0.024	0.021	0.0035	0.015	0.009	0.002	0.012			0.0005	0.0035
NIST-1767	Low Alloy Steel	0.052	0.026	0.022	0.0031	0.009	0.0015	0.002	0.02	0.0014	0.033	0.005	0.004		<0.0001	0.0008	0.0005
NIST-C1173	Cast Steel 3	0.453	1.38	0.174	0.031	0.092	2.63	4.04	1.46	0.204	0.42						
NIST-C1285	LA Steel (A242) (mod.)	0.058	0.36	0.332	0.072	0.02	0.8	1.17	0.164	0.37	0.15	0.036		0.021			

Analyte - Measured Values (continued)

Code	B	Bi	Ca	Fe	N	Nb	Pb	Sb	Sn	Ta	Te	Ti	W	Zr	Size	Form	Type
NIST-1761A	0.0023			95	(0.0042)	0.021		(0.0052)	(0.05)	(0.05)		0.173		0.012	Ø34x19mm		CRM
NIST-1762A	0.0042			(94.2)	(0.002)	0.0692			0.0479	0.0203		0.0952		0.0285	Ø34x19mm		CRM
NIST-1763A	0.0054			(95.3)	(0.0045)	0.1		(0.011)	(0.011)	(0.012)		0.308	(0.002)	0.044	Ø34x19mm		CRM
NIST-1764A	0.001			(95.1)	0.0023	0.0416			0.024	0.0297		0.0286	(0.0016)	0.0012	Ø34x19mm		CRM
NIST-1765	0.0009				0.001	0.0004	0.0003	0.001	0.002	(0.004)		0.0055		(0.0002)	Ø34x19mm		CRM
NIST-1766	0.00012				0.0033	0.005	0.003	0.0005	0.001	(0.006)		0.0005		(0.0004)	Ø34x19mm		CRM
NIST-1767	0.001	<0.0001	0.0003		0.0008	0.01	<0.0001	0.002	0.006	0.002	0.0003	0.011		0.004	Ø34x19mm		CRM
NIST-C1173												0.037			Ø32x19mm	C	CRM
NIST-C1285									0.035						Ø32x19mm		CRM

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BS - Low Alloyed Steel

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Ce
BS-15A	Low Alloy Steel	0.142	0.058	1.12	0.016	0.008	0.044	0.029	0.008	0.03	0.012	0.005	0.041	(0.003)
BS-43A	6150 Low Alloy Steel	0.491	0.252	0.811	0.008	0.026	0.93	0.242	0.059	0.184	0.148	0.008	0.003	
BS-45A	LOW ALLOY STEEL, Cr-Mo	0.133	0.69	0.46	0.016	0.022	1.16	0.15	0.52	0.17	0.004	0.009	0.032	
BS-45B	F-11 Steel – UNS K11572l, Ø 38mm x 19 mm	0.15	0.58	0.5	0.008	0.017	1.1	0.13	0.6	0.1	0.009	0.009	0.03	
BS-47A	F-5 Steel Disc	0.13	0.27	0.44	0.017	0.015	4.22	0.12	0.47	0.11	0.016	0.011	0.015	
BS-47B	F-5 Steel Disc	0.122	0.22	0.39	0.014	0.022	4.78	0.105	0.45	0.12	0.004		0.018	
BS-48B	K90941, F-9 Cr-Mo-Steel	0.110	0.75	0.365	0.0228	0.0068	8.78	0.165	0.949	0.070	0.033	0.0165	0.0157	
BS-51F	4620 Low Alloy Steel	0.19	0.24	0.52	0.016	0.018	0.157	1.68	0.224	0.231	0.003	0.009	0.021	
BS-53G	E52100 Low Alloy Steel	1.02	0.23	0.35	0.014	0.015	1.53	0.09	0.034	0.16	0.006	0.008	0.019	
BS-54G	Low Alloy Steel	0.658	0.5	0.82	0.011	0.012	0.16	0.163	0.019	0.151	0.012	0.0019	0.018	

Analyte - Measured Values (continued)

Code	Mg	As	B	Ca	Fe	Hg	N	Nb	Pb	Sb	Sn	Ti	W	Zn	Zr	Size	Type
BS-15A		0.003	(0.0002)	(0.0005)				0.041	(0.0003)	(0.003)	0.002	0.008	(0.004)		0.022	Ø 32x17 mm	RM
BS-43A							0.0074				0.011	0.002				Ø 35-44x19 mm	RM
BS-45A		0.007					0.0081			0.0027	0.011					Ø 35-44x19 mm	RM
BS-45B	<0.005	0.007	<0.005	<0.005	(96.7)		0.007	0.001			0.007	0.002	0.004		0.001	Ø 38x19 mm	CRM
BS-47A							0.018	0.002			0.008	0.003				Ø 38x19 mm	RM
BS-47B		0.004					0.023				0.006					Ø 38-41x12 mm	RM
BS-48B	(0.0002)	0.0048	(0.0002)	(0.003)	(88.7)		0.0088	(0.001)	(0.0002)	(0.001)	0.0049	0.0031	0.026	(0.0003)	(0.002)	Ø 38x19 mm	CRM
BS-51F	(0.0001)	(0.0024)	(0.0001)	(0.0005)		(<0.00001)	0.006	(0.0005)	(0.00007)	(0.0011)	0.009	(0.0012)	(0.003)	(0.0002)		Ø 38x19 mm	RM
BS-53G		0.004	(0.0001)	(0.0001)			0.0084				0.007	(0.002)	(0.13)			Ø 35-44x19 mm	RM
BS-54G		(<0.005)	(<0.0005)	(0.001)			<0.0004	0.024			0.026	0.015	(<0.03)			Ø 35-44x19 mm	CRM

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BS - Low Alloyed Steel

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Mg	As	B	Ca
BS-58E	9310 Low Alloy Steel	0.1	0.29	0.63	0.009	0.002	1.4	3.22	0.11	0.154	0.006	0.013	0.029		0.003	(0.0002)	(0.0002)
BS-67C	8740 Steel	0.404	0.239	0.91	0.015	0.009	0.511	0.61	0.221	0.173	0.0022	0.01	0.024				
BS-69B	Steel - Low Alloy - Ni > 1%	0.258	1.27	1.28	0.008	0.013	0.28	1.71	0.39	0.086	(0.002)	0.035	0.024				
BS-73C	Steel Grade 86L20	0.21	0.28	0.84	0.012	0.03	0.58	0.59	0.18	0.026	0.003	0.003	0.03	<0.0005	0.004	<0.005	<0.005
BS-1144	1144 Steel	0.483	0.262	1.55	0.022	0.243	0.193	0.097	0.017	0.462	0.0039	0.011	(0.002)		0.009		
BS-1962	LOW ALLOY STEEL, 4140	0.41	0.242	0.94	0.007	0.011	1.05	0.16	0.229	0.224	0.004	0.008	0.018	0.0001	0.007		
BS-1972	3310 Low Alloy Steel	0.13	0.24	0.51	0.012	0.017	1.53	3.28	0.052	0.089	0.003	0.012	0.014		0.004	(0.0001)	(0.0002)
BS-1982	F22 Steel - Molybdenum	0.128	0.255	0.441	0.012	0.026	2.09	0.197	0.89	0.177	0.003	0.01	0.021		0.007		
BS-2952	STEEL Grade E52100	1.03	0.32	0.33	0.013	0.014	1.36	0.135	0.044	0.106	0.005	0.007	0.024		0.004		0.0003
BS-3952	C-Mo STEEL	0.208	0.264	0.546	0.011	0.021	0.105	0.112	0.519	0.202			0.048				

Analyte - Measured Values (continued)

Code	Fe	N	Nb	Pb	Sb	Sn	Ti	W	Zr		Size	Type
BS-58E		0.0033				0.003	(0.002)				Ø 35-44x19 mm	RM
BS-67C		0.0075				0.01	(0.002)				Ø 38x19 mm	CRM
BS-69B		0.0057				0.006	(0.002)				Ø 35-44x19 mm	RM
BS-73C	(97.0)	0.004	0.005	0.21	0.003	0.004	0.002	0.007	0.002		Ø 38x19 mm	prov.
BS-1144		0.0093	(0.004)	(0.001)		0.0113	0.002	(0.003)			Ø 38x19 mm	CRM
BS-1962		0.0095		(0.001)		0.01	0.004				Ø 41 x 19 mm	RM
BS-1972		0.0096	(0.001)	(0.001)	(0.004)	0.006	(0.003)	(0.004)			Ø 35-44x19 mm	RM
BS-1982		0.0097	(<0.003)	(0.0003)	0.002	0.013	(0.001)				Ø 38x19 mm	CRM
BS-2952		0.0084			0.003	0.006	0.003				Ø 38x19 mm	RM
BS-3952		(0.0005)									Ø 35-44x19 mm	RM

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BS - Low Alloyed Steel

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Ce	Mg	As
BS-3961	E4320 Low Alloy Steel	0.215	0.236	0.565	0.016	0.022	0.51	1.67	0.27	0.133	(0.002)	(0.01)	0.022			
BS-3962	E4617 Low Alloy Steel	0.168	0.244	0.58	0.007	0.018	0.138	1.83	0.219	0.146	(0.001)	0.007	0.023			0.005
BS-4130	Low Alloy Steel	0.303	0.245	0.541	0.0105	0.0113	0.924		0.088	0.168	0.221	0.0037	0.0065	0.0242	0.0002	0.0048
BS-4330V	4330 Low Alloy Steel	0.318	0.24	0.91	0.008	0.0009	0.91	1.91	0.475	0.181	0.094	0.011	0.021		0.0001	0.006
BS-4340	Low Alloy Steel 4340, G43400	0.41	0.28	0.71	0.012	0.02	0.80	1.8	0.23	0.15	0.004	<0.05	0.03		<0.005	0.004
BS-4340A	Low Alloy Steel 4340, G43400	0.42	0.26	0.77	0.006	0.001	0.88	1.8	0.26	0.13	<0.05	0.01	0.03		<0.005	0.005
BS-4620	4620 Low Alloy Steel	0.189	0.25	0.57	0.006	0.018	0.072	1.75	0.24	0.216	(0.0008)	0.012	0.032		(0.0001)	(0.0084)
BS-4820A	4820 Steel - Low Alloy	0.203	0.185	0.64	0.008	0.014	0.116	3.28	0.203	0.212	0.001	0.008	0.029		0.0003	0.006
BS-4941	6150 Low Alloy Steel	0.49	0.27	0.79	0.012	0.017	0.96	0.074	0.039	0.106	0.164	0.008	0.024			(0.004)
BS-4942	A193 Low Alloy Steel	0.414	0.22	0.56	0.015	0.021	0.97	0.16	0.54	0.165	0.28	0.01	(0.004)			0.005

Analyte - Measured Values (continued)

Code	B	Ca	Cd	Fe	Hg	N	Nb	Pb	Sb	Sn	Ta	Ti	W	Zn	Zr	Size	Type
BS-3961						0.0079				(0.008)		<0.003				Ø 35-44x19 mm	RM
BS-3962						0.0072				0.007						Ø 35-44x19 mm	RM
BS-4130	(0.0002)	0.0007		97.5		0.0072	0.0015	(0.00003)	(0.0021)	0.0099	0.0025	0.0009	0.0011		0.0002	Ø 38x19 mm	CRM
BS-4330V	<0.0001	0.0010	<0.0001			0.0076		0.00004	0.002	0.010		0.0004	0.001	0.0002		Ø 37x19 mm	RM
BS-4340	<0.005	<0.005		95.5		0.01	0.002	<0.005		0.007		0.002	<0.005		<0.005	Ø 38x19 mm	CRM
BS-4340A	<0.005	<0.005		95.4		0.01	<0.05	<0.005		0.008		0.002	<0.005		0.002	Ø 38x19 mm	CRM
BS-4620	(0.00006)	(0.0001)			(<0.00001)	0.0078	(0.0001)	(0.0002)	(0.0024)	0.013		(0.0026)	(0.0009)	(0.0002)		Ø 38x19 mm	RM
BS-4820A	0.0002	0.0003				0.0076	(0.002)	(0.0002)	0.0024	0.0097		0.0012	(0.002)			Ø 38x19 mm	CRM
BS-4941		(0.0002)				0.0076				0.006						Ø 35-44x19 mm	RM
BS-4942		0.0006				0.008				0.014						Ø 35-44x19 mm	RM

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BS - Low Alloyed Steel

		Analyte - Measured Values														
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Mg	As	B
BS-4942A	Steel grade A193, K14072	0.39	0.26	0.64	0.008	0.002	0.96	0.055	0.54	0.064	0.27	0.008	0.010	<0.005	0.003	<0.005
BS-6418	6418 Low Alloy Steel	0.255	1.54	1.42	0.01	0.004	0.34	1.74	0.42	0.11	0.003	0.01	0.027		0.0044	
BS-8620E	Steel ASTM A331 grade 8620, UNS G86200	0.21	0.255	0.8	0.011	0.0238	0.541	0.564	0.223	0.186	0.0024	0.0068	0.027	(0.0003)	0.0044	(0.0003)
BS-9325A	CRM for Low Alloy Steel	0.203	0.612	0.969	0.0079	0.0045	1.5	3.29	0.358	0.163	(0.0024)	0.0093	0.0056	(0.0002)	0.0024	(0.0001)
BS-9905A	F-91 Steel, UNS K90901	0.113	0.34	0.465	0.0133	0.004	8.75	0.152	0.95	0.091	0.216	0.0136	0.0186	(0.0004)	0.0065	(0.0005)
BS-A485-1	Steel - Low Alloy	0.98	0.62	1.1	0.019	0.004	1.07	0.13	0.029	0.16	0.003	0.01	0.017		0.006	
BS-HICAL-1	Calcium treated Low Alloy Steel	0.271	1.29	1.0	(0.007)	0.0007	1.55	3.28	0.379	0.152	0.0027	0.0024	0.07	(0.0003)	0.0022	(0.0001)
BS-LF3	Steel - Low Alloy - Ni > 1%	0.183	0.206	0.52	0.006	0.018	0.098	3.36	0.056	0.08	(0.002)	0.056	0.017		0.006	0.0001
BS-XCCT	3115 Low Alloy Steel	0.158	0.28	0.52	0.005	0.011	0.65	1.27	0.02	0.027	0.031	0.017	0.006		0.004	
BS-XCCV	Low Alloy Steel	0.44	0.28	1.75	0.012	0.024	0.041	0.019	0.007	0.015	(<0.003)	0.006	0.033		0.0023	

	Analyte - Measured Values (continued)													
Code	Ca	Fe	N	Nb	Pb	Sb	Sn	Ta	Ti	W	Zr		Size	Type
BS-4942A	0.0012	96.7	0.008	0.003	0.001		0.006		0.003	<0.005	0.002		Ø 38x19mm	CRM
BS-6418			0.0066				0.006		0.003				Ø 57x19 mm	RM
BS-8620E	0.001	97.2	0.008	(0.002)	(0.0008)	0.0015	0.011	(0.0004)	0.0016	0.0008	(0.0008)		Ø 38x19 mm	CRM
BS-9325A	0.0039	92.8	0.0076	0.0017	(0.0003)		(0.0003)	(0.01)	0.003	0.024	(0.001)		Ø 40x30 mm	CRM
BS-9905A	(0.002)	88.9	0.034	0.074	(0.002)	(0.003)	0.006	(0.01)	0.0023	0.0024	(0.002)		Ø 38x19 mm	CRM
BS-A485-1			0.006				0.011		0.003				Ø 35-44x19 mm	RM
BS-HICAL-1	0.014	(91.9)		(0.002)	(0.0005)		(0.0002)		0.0037	(0.0009)	(0.0008)		Ø 38x30 mm	CRM
BS-LF3	(0.0001)		0.0054				0.006						Ø 35-44x19 mm	RM
BS-XCCT			0.0076	(0.001)	(<0.001)	(0.0004)	(0.002)		(0.002)		(<0.002)		Ø 35-44x19 mm	RM
BS-XCCV			0.0056	(<0.002)	(<0.0006)	(0.0003)	(0.0004)		(0.002)		(<0.002)		Ø 36x19 mm	RM

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IRSID - Low Alloyed Steel

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Ce	Mg	As	B
IRSID-1670	Low Carbon Steel ø37x30mm	0.0011	0.0046		0.3981	0.0128	0.0075	0.0174	0.0142	0.0009	0.0134	(0.0005)	0.0018	0.0479		0.0018	0.0007
IRSID-1730	Steel, low alloyed	0.355	0.325	0.403	0.01	(0.018)	1.65	3.64	0.072	0.096	(0.01)		(0.038)				
IRSID-1731	Steel, low alloyed	0.386	0.263	0.458	0.017	(0.008)	0.734	2.88	(0.036)	0.06			(0.012)				
IRSID-1741	Steel, low alloyed	(0.244)	0.38	0.466	0.037			0.962	0.204	0.117	0.051		(0.102)				
IRSID-1747	Steel, low alloyed	0.99	0.222	0.333	0.0078	0.0068	1.501	0.085	0.0141	0.1243	0.0046	0.011	0.0392		(0.00022)	0.017	(0.00015)
IRSID-1750	Steel, low alloyed	0.359	0.246	1.801	0.0128	0.075	0.227	0.187	0.0433	0.32	0.114	(0.012)	0.0175	(<0.0005)	(<0.0002)	0.0188	(0.0002)

Analyte - Measured Values (continued)

Code	Bi	Ca	Cd	N	Nb	Pb	Sb	Se	Sn	Ta	Te	Ti	W	Zn	Zr		Size	Type
IRSID-1670		0.0002		0.0016	(0.0003)				0.0017			0.0078					Ø 37x30 mm	CRM
IRSID-1730									(0.01)								Ø 32x30 mm	CRM
IRSID-1731												(0.047)					Ø 40x30 mm	CRM
IRSID-1741									0.059			(0.049)					Ø 38x25 mm	CRM
IRSID-1747	<0.0002	(0.0003)	0.0001	0.0084	(0.00025)	(0.00025)	(0.0034)	0.0001	0.0105		0.00012	0.0041		0.0005	(0.0001)		Ø 37x30 mm	CRM
IRSID-1750	(0.00002)	(0.0002)	(<0.0005)	0.0107	(<0.001)	(<0.001)	0.0031	(0.0002)	0.0137	(<0.001)	(0.006)	(0.0016)	(0.004)	(0.0012)	(0.0002)		Ø 38x25 mm	CRM

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BAS - Low Alloyed Steel

		Analyte - Measured Values															
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	As	B	Ca	N
BAS-SS-CRM 111A	Low Alloy Steels	0.0258	0.0253	0.155	0.0033	0.0054	0.0197	0.0387	0.0008	0.0171	0.0009	0.0144	0.0348	0.0017	(<0.001)	(<0.0005)	0.0034
BAS-SS-CRM 112	Low Alloy Steels	0.394	0.289	0.436	0.0043	0.0026	1.236	1.461	0.19	0.149		0.0175	0.0148	0.0021	0.0007		0.0024
BAS-SS-CRM 113	Low Alloy Steels	0.837	0.931	1.207	0.0595	0.0294	1.248	0.0784	0.056	0.179	0.201	0.0415	0.0151	0.002	0.0066		0.0109
BAS-SS-CRM 114	Low Alloy Steels	0.403	0.295	0.416	0.0044	0.0046	0.187	1.502	0.184	0.358	0.0086	0.0171	0.078	0.0025	0.0008		0.0043
BAS-SS-CRM 219/4	Ni-Cr-Mo Steel	0.314	0.079	0.81	0.011	0.027	0.66	2.55	0.58	0.088							
BAS-SS-CRM 222/1	3,5% Nickel Steel	0.3095	0.227	0.618	0.0175	0.0089	0.0535	3.536	0.0287	0.15	0.02	0.0379			<0.005		0.01
BAS-SS-CRM 225/2	Ni-Cr-Mo Steel	0.4	0.23	0.56	0.019	0.012	1.08	1.43	0.34								
BAS-SS-CRM 407/2	Low Alloy Steel (Group B)	0.490	1.121	0.195	0.038	0.0105	3.03	0.527	0.83	0.397	0.19	0.0068	0.040				(0.011)
BAS-SS-CRM 421	Low Tungsten Steel	(0.049)	(0.07)	(0.11)	(0.012)	(0.027)			(0.028)		(<0.02)						
BAS-SS-CRM 422	Low Tungsten Steel	(0.036)	(0.06)	(0.09)	(0.015)	(0.025)			(0.033)		(<0.02)						
BAS-SS-CRM 423	Low Tungsten Steel	(0.03)	(0.05)	(0.07)	(0.017)	(0.027)			(0.027)		(<0.02)						
BAS-SS-CRM 424	Low Tungsten Steel	(0.024)	(0.05)	(0.09)	(0.02)	(0.024)			(0.036)		(<0.02)						
BAS-SS-CRM 615/1	Low Alloy Cast Steel	0.30	0.17	1.68		(0.02)	0.49	4.01	0.21	(0.05)	0.10						

	Analyte - Measured Values (continued)									
Code	Nb	Pb	Sb	Sn	Ti	W	Zr		Size	Type
BAS-SS-CRM 111A	(0.0005)	(<0.001)	(<0.001)	0.0015	0.0004		(<0.001)		Ø 44x19 mm	CRM
BAS-SS-CRM 112	0.0065			0.0086	0.01				Ø 44x19 mm	CRM
BAS-SS-CRM 113	0.0487			0.0067	0.039	0.012	0.0029		Ø 44x19 mm	CRM
BAS-SS-CRM 114	0.0042			0.041	0.0096		0.0051		Ø 44x19 mm	CRM
BAS-SS-CRM 219/4				0.011					Ø 38x19 mm	CRM
BAS-SS-CRM 222/1									Ø 38x19 mm	CRM
BAS-SS-CRM 225/2									Ø 38x19 mm	CRM
BAS-SS-CRM 407/2									Ø 38x19 mm	CRM
BAS-SS-CRM 421						0.52			Ø 38x19 mm	CRM
BAS-SS-CRM 422						1.28			Ø 38x19 mm	CRM
BAS-SS-CRM 423						2.06			Ø 38x19 mm	CRM
BAS-SS-CRM 424						3.02			Ø 38x19 mm	CRM
BAS-SS-CRM 615/1									Ø 44x19 mm	CRM

BAS - Low Alloyed Steel (Group A)

		Analyte - Measured Values														
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	N	Size	Type
BAS-SS-CRM 401/2	Low Alloy Steel (Group A)	0.935	0.602	1.197	0.0265	0.0078	0.138	0.019	0.495	0.101	0.496	0.0042	0.074	(0.015)	Ø 38x19 mm	CRM
BAS-SS-CRM 402/2	Low Alloy Steel (Group A)	1.311	0.947	0.228	0.0161	0.0138	0.652	0.808	0.140	0.302	0.194		0.161	0.0069	Ø 38x19 mm	CRM
BAS-SS-CRM 403/2	Low Alloy Steel (Group A)	0.750	0.66	1.677	0.055	0.0381	0.463	0.223	0.088	0.221	0.341		0.0485	(0.010)	Ø 38x19 mm	CRM
BAS-SS-CRM 404/2	Low Alloy Steel (Group A)	0.696	0.111	0.532	0.0479	0.0228	0.774	0.393	0.307	0.427	0.107		0.017	0.0089	Ø 38x19 mm	CRM
BAS-SS-CRM 405/2	Low Alloy Steel (Group A)	0.044	0.209	0.903	0.0095	0.058	0.206	0.102	0.025	0.022	0.411		0.330	(0.011)	Ø 38x19 mm	CRM

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MBH - Low Alloyed Steel

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	As	B	N	Sn	Ti
MBH-12X 15CDV6 A	Low alloy steel	0.171	0.152	0.839	0.0056	0.0086	1.397	0.044	0.875	0.0231	0.242		0.019	0.0041		0.0069	0.0011	
MBH-12X 19MNVS6 A	Low alloy steel	0.174	0.357	1.563	0.0114	0.0245	0.1087	0.11	0.027	0.203	0.0939		0.0101			0.021	0.0214	
MBH-12X 40CDV12 A	Low Alloy Steel	0.401	0.250	0.604	0.0060	0.0013	3.29	0.1062	0.946	0.0978	0.198	0.0197	0.0208	0.0040		0.0155	0.0049	
MBH-12X 349 D	Residuals in Mild Steel	0.2	0.22	0.5	0.02	0.023	0.3	0.3	0.13	0.11	0.015	0.02	0.16	0.002			0.15	0.11
MBH-12X 352 D	Residuals in mild steel	0.298	0.338	0.627	0.066	0.125	0.423	0.334	0.257	0.144	0.0584	0.0504	0.146	0.0095			0.105	0.285
MBH-12X 605M36 A	Low Alloy Steel	0.373	0.283	0.1504	(0.009)	0.0317	0.243	0.0095	0.292	0.199		0.0151	0.0105	0.0102			0.0101	
MBH-12X 722M24 A	Low alloy steel	0.236	0.262	0.51	0.0135	0.0199	3.094	0.208	0.497	0.2	0.008		0.0187	0.0075			0.0116	
MBH-12X 826M40 A	Low Alloy Steel	0.395	0.248	0.529	0.0094	0.0025	0.649	2.408	0.510	0.1294			0.0404	0.0056		0.0089	0.0085	
MBH-12X 835M30 A	Low Alloy Steel	0.275	0.198	0.457	0.0071	0.0157	1.119	4.01	0.213	0.195	0.0029		0.004	0.0068		0.0087	0.0101	0.0012
MBH-12X 4330V A	Low Alloy Steel	0.327	0.303	0.857	0.0062	0.003	0.922	1.99	0.47	0.0954	0.0507		0.0311	0.0059		0.0078	0.0071	
MBH-12X 10550 A	Residuals in Mild Steel	0.549	0.281	0.685	0.0184	0.0055	0.338	0.0247	0.0086	0.0290			0.0325	0.0059		0.0051	0.0018	
MBH-12X 11572 A	Low Alloy Steel	0.111	0.649	0.498	0.0069	0.0025	1.107	0.0977	0.499	0.0576			0.0290	0.0030		0.0058	0.0049	
MBH-12X 12700 A	Residuals in Mild Steel	0.364	0.238	0.636	0.0205	0.0116	0.07	0.0197	0.0345	0.0342	0.0033	0.0047	0.055	0.006	0.0014	0.0073		
MBH-12X 12701 A	Residuals in Mild Steel	0.33	0.308	0.636	0.0218	0.0124	0.235	0.0557	0.0163	0.0346	0.004	0.0058	0.0426	0.006	0.001	0.0072		
MBH-12X 12747 U	Residuals in Mild Steel	0.149	0.337	2.02	0.029	0.041	0.443	0.391	0.5	0.437	0.0375	0.2	0.015	0.0114			0.167	0.072

Analyte - Measured Values (continued)

Code	W	Zn		Size	Form	Type
MBH-12X 15CDV6 A				Ø 40x15 mm	W	CRM
MBH-12X 19MNVS6 A				Ø 38x15 mm	W	CRM
MBH-12X 40CDV12 A				Ø 38x15 mm	W	CRM
MBH-12X 349 D	0.05			Ø 40x15 mm	W	prov.
MBH-12X 352 D	0.223			Ø 40x15 mm	W	CRM
MBH-12X 605M36 A				Ø 38x15 mm	W	CRM
MBH-12X 722M24 A		0.0028		Ø 38x15 mm	W	CRM
MBH-12X 826M40 A				Ø 38x15 mm	W	CRM
MBH-12X 835M30 A				Ø 45x15 mm	W	prov.
MBH-12X 4330V A				Ø 45x15 mm	W	prov.
MBH-12X 10550 A		(0.0016)		Ø 40x20 mm	W	CRM
MBH-12X 11572 A		0.0009		Ø 38x15 mm	W	CRM
MBH-12X 12700 A		0.012		Ø 50x20 mm	C	CRM
MBH-12X 12701 A		0.0014		Ø 50x20 mm	C	CRM
MBH-12X 12747 U	0.03			Ø 42x15 mm	W	CRM

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MBH - Low Alloyed Steel

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	As	N	Nb	Sn	Ta
MBH-12X 12748 U	Residuals in Mild Steel	0.10	0.22	0.91	0.032	0.050	0.41	0.38	0.33	0.34	0.052	0.33	0.105	0.13			0.080	
MBH-12X 12750 U	Residuals in Mild Steel	0.258	0.599	0.51	0.0078	0.0053	0.792	0.786	0.088	0.106	0.102	0.581	0.253			0.111	0.11	
MBH-12X 14072 A	Low Alloy Steel	0.43	0.322	0.68	0.0151	0.0061	1.061	0.136	0.573	0.203	0.301	0.0098	0.0039		0.0103		(0.011)	
MBH-12X 15180 A	Residuals in Mild Steel	0.170	0.212	1.196	0.0110	0.0022	0.118	0.1030	0.0231	0.141			0.018	0.0117	0.0051		0.0115	
MBH-12X 15217 Q	Low Alloy Steels	0.176	1.39	0.652	0.058	0.073	1.24	0.864	0.358	0.231	0.662	0.248	(0.021)		0.0253	0.131	0.0737	
MBH-12X 15251 T	Low Alloy Steels	1.17	2.27	1.003	0.0284	0.0258	0.792	1.035	0.205	0.11	0.405	0.259	0.05		0.0232	0.29	0.0047	
MBH-12X 15252 Q	Low Alloy Steels	0.0478	0.265	0.818	0.0213	0.058	0.887	2.03	0.248	0.154	0.33	0.154	0.074		0.0218	0.1	0.0448	0.054
MBH-12X 15253 S	Low alloy steel	0.173	0.299	0.992	0.0552	0.053	1.505	0.506	0.513	0.326	0.242	0.0898	0.024	0.0259	0.0235	0.383	0.129	0.011
MBH-12X 15254 Z	Low Alloy Steel (wrought)	0.285	0.916	1.117	0.043	0.047	2.12	0.394	0.758	0.123	0.290	0.550	0.599			0.347	0.0651	
MBH-12X 15255 Q	Low Alloy Steel	0.351	1.02	1.191	0.104	0.07	1.509	0.296	0.1193	0.279	0.475	0.0502	0.073	0.0193	0.027	0.152	0.101	
MBH-12X 15256 Q	Low Alloy Steel	0.12	0.18	0.48	0.015	0.015	0.36	5.3	0.08	0.06	0.6	0.5	0.14		0.005	0.06	0.11	
MBH-12X 15258 N	Low Alloy Steels	0.548	1.02	1.434	0.0439	0.0710	0.465	0.327	0.215	0.0934	0.218	0.272	0.032			0.103	0.0453	
MBH-12X 15259 Q	Low Alloy Steel	0.603	1.81	0.401	0.0401	0.0704	0.512	4.02	0.407	0.2	0.139	0.141	0.1488		0.0151	0.249	0.053	
MBH-12X 15260 W	Low Alloy Steel (wrought)	0.352	0.485	2.08	0.0275	0.074	2.98	0.453	0.098	0.152	0.442	0.0884	0.191	0.055		0.254	0.0094	(0.016)
MBH-12X 15261 X	Low Alloy Steels	0.546	1.513	0.483	0.09	0.0518	0.496	0.0985	1.594	0.308	0.122	0.333	1.648	0.0051		0.601	0.0172	

Analyte - Measured Values (continued)

Code	Ti	W	Zn	Zr		Size	Form	Type
MBH-12X 12748 U	0.110	0.045				Ø 42x15 mm	W	CRM
MBH-12X 12750 U	0.159	0.1				Ø 40x15 mm	W	CRM
MBH-12X 14072 A						Ø 38x15 mm	W	prov.
MBH-12X 15180 A			0.0016			Ø 40x20 mm	W	CRM
MBH-12X 15217 Q		0.121				Ø 40x15 mm	W	CRM
MBH-12X 15251 T		0.053				Ø 43x20 mm	W	CRM
MBH-12X 15252 Q						Ø 40x15 mm	W	CRM
MBH-12X 15253 S		0.265				Ø 40x15 mm	W	CRM
MBH-12X 15254 Z	0.303	0.349				Ø ~40x20 mm	W	CRM
MBH-12X 15255 Q	0.0377	0.15				Ø 40x15 mm	W	prov.
MBH-12X 15256 Q		0.09				Ø 40x15 mm	W	prov.
MBH-12X 15258 N	0.120	0.102				Ø 42x15 mm	W	CRM
MBH-12X 15259 Q		0.49				Ø 40x15 mm	W	prov.
MBH-12X 15260 W						Ø ~40x15 mm	W	CRM
MBH-12X 15261 X	0.385	0.269		0.0297		Ø 40x15 mm	W	CRM

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MBH - Low Alloyed Steel

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	As	N	Nb	Pb	Sn
MBH-12X 15266 V	Low Alloy Steel	0.45	0.66	1.26	0.034	0.026	3.4	1.31	0.3	0.23	0.11	0.3	0.52	0.07		1.45		0.01
MBH-12X 19965 A	Low alloy steel	0.93	0.247	0.59	0.020	0.007	1.70	0.14	0.21	0.14	0.009		0.024		0.008			0.007
MBH-12X 21590 A	Low Alloy Steel	0.139	0.211	0.457	0.0128	0.0059	2.1	0.144	0.935	0.283	0.0032		0.0202	0.0091	0.0134			0.019
MBH-12X 24065 A	Low Alloy Steel	(0.38)	(0.22)	(0.52)	(0.012)	(0.005)	(1.44)	(0.27)	(0.173)	(0.22)	(0.004)		(1.05)	(0.008)	(0.008)			(0.013)
MBH-12X 32550 A	Low alloy steel	0.257	1.59	1.35	0.0061	0.0054	0.377	1.75	0.417	0.108	0.0222		0.0178	0.0054	0.0101			0.0206
MBH-12X 41300A	Low alloy steel	0.319	0.183	0.551	0.0082	0.0156	0.996	0.084	0.217	0.131			0.027	0.0043	0.0095			0.006
MBH-12X 41400 A	Low Alloy Steel	0.418	0.221	0.795	0.0138	0.021	1.003	0.127	0.211	0.238			0.0195	0.0088	0.0101			0.0181
MBH-12X 41450 A	Low Alloy Steel	0.446	0.261	1.011	0.0093	0.0031	1.194	0.187	0.34	0.1318	0.0385		0.022	0.0053	0.008			0.009
MBH-12X 43400 A	Low alloy steel	0.422	0.259	0.592	0.0164	0.0284	1.181	1.378	0.223	0.177			0.013	0.0084	0.0089			0.007
MBH-12X 44220 A	Low alloy steel	0.417	1.662	0.874	0.005	0.0009	0.846	1.89	0.401	0.031	0.0764		0.029	0.0026	0.003			0.0019
MBH-12X 46150 A	Low Alloy Steel	0.16	0.24	0.471	0.0162	0.0074	0.0348	1.59	0.243	0.0158	0.0019		0.0116	0.0016	0.0082		0.0012	0.0012
MBH-12X 52986 A	Low alloy steel	1.023	0.246	0.372	0.0049	0.0011	1.418	0.0411	0.0169	0.077	0.0615		0.0258	0.002	0.002			0.0063
MBH-12X 61500 A	Low alloy steel	0.53	0.24	0.912	0.0104	0.0102	1.023	0.0976	0.0195	0.157	0.11		0.007	0.0067				0.0114
MBH-12X 86200 A	Low alloy steel	0.19	0.299	0.85	0.012	0.01	0.59	0.6	0.22	0.22	0.005		0.03	0.005	0.008			0.01
MBH-12X 93106 A	Low alloy steel	0.122	0.206	0.605	0.0071	0.013	1.107	3.255	0.0879	0.199	0.003		0.0246	0.005	0.0098			0.0094

Analyte - Measured Values (continued)

Code	Ta	Ti	Zn		Size	Form	Type
MBH-12X 15266 V	0.12				Ø 40x15 mm	CC	prov.
MBH-12X 19965 A			0.0005		Ø 38x15 mm	W	CRM
MBH-12X 21590 A		0.0011	0.0045		Ø 40x15 mm	W	prov.
MBH-12X 24065 A			(0.003)		Ø 40x15 mm	W	CRM
MBH-12X 32550 A					Ø 38x15 mm	W	CRM
MBH-12X 41300A			0.0012		Ø 38x15 mm	W	CRM
MBH-12X 41400 A			0.0041		Ø 38x20mm	W	CRM
MBH-12X 41450 A					Ø 38x15 mm	W	prov.
MBH-12X 43400 A			0.0027		Ø 40x15 mm	W	CRM
MBH-12X 44220 A					Ø 38x15 mm	W	CRM
MBH-12X 46150 A			0.0067		Ø 45x15 mm	W	prov.
MBH-12X 52986 A					Ø 38x15 mm	W	CRM
MBH-12X 61500 A			0.0055		Ø 38x15 mm	W	CRM
MBH-12X 86200 A					Ø 38x15 mm	W	CRM
MBH-12X 93106 A					Ø 38x15 mm	W	CRM

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MBH - Low Alloyed Steel

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	As	B	N	Pb	Sn
MBH-12X LA1 B	Low Alloy Steels	0.105	0.77	1.27	0.009	0.057	1.03	0.21	0.067	0.057	0.450	0.014	0.010	0.022		0.0145		
MBH-12X LA2 E	Low Alloy Steel	0.195	0.678	0.57	0.0241	0.0263	0.813	0.783	0.136	0.786	0.099	0.0306	1.381	0.292		0.0173		0.0066
MBH-12X LA3 C	Low Alloy Steels	0.5	0.15	1.6	0.025	0.045	0.35	0.3	0.3	0.2	0.15	0.05	0.04	0.03		0.003		
MBH-12X LA4 B	Low Alloy Steels	0.537	0.335	0.303	0.0363	0.039	0.499	0.521	0.489	0.334	0.328	0.105	0.057			0.0222		
MBH-12X LA5 B	Low Alloy Steels	0.724	0.637	0.977	0.05	0.0216	0.131	0.15	0.225	0.161	0.589	0.158	0.157		0.0074	0.0068	0.0042	
MBH-12X LA5 C	Low Alloy Steel	0.77	0.5	0.7	0.055	0.025	0.67	0.47	0.31	0.16	0.58	0.17	0.1	0.007	0.006	0.019	0.007	0.01
MBH-12X LA6 C	Low Alloy Steel	0.03	0.085	0.10	0.005	0.009	0.15	0.06	0.02	0.027	0.007	<0.002	0.17			0.006		

Analyte - Measured Values (continued)

Code	W	Zn	Zr		Size	Form	Type
MBH-12X LA1 B					Ø 40x15 mm	W	CRM
MBH-12X LA2 E					Ø 40x15 mm	W	CRM
MBH-12X LA3 C		0.003	0.02		Ø 40x15 mm	W	prov.
MBH-12X LA4 B	0.091				Ø 42x15 mm	W	CRM
MBH-12X LA5 B		0.029			Ø 40x15 mm	W	CRM
MBH-12X LA5 C		0.007			Ø 40x15 mm	W	prov.
MBH-12X LA6 C		0.005			Ø 40x15 mm	W	prov.

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SPL - Low Alloyed Steel

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	As	B	Ca	N	Nb
SPL-CM-1B-10MM	Steel - Low Alloy	0.72	0.31	1.73	0.023	0.025	0.47	0.52	0.084	0.18	0.073	0.026	0.034		0.002	0.0007	0.009	0.054
SPL-CM-1B-25MM	Steel - Low Alloy	0.72	0.31	1.73	0.023	0.025	0.47	0.52	0.084	0.18	0.073	0.026	0.034		0.002	0.0007	0.009	0.054
SPL-CM-2A-10MM	Steel - Silicon	0.2	1.19	0.97	0.1	0.012	1.5	1.2	0.33	1.01	0.1	0.43	0.03	0.11	0.0005			0.48
SPL-CM-2A-25MM	Steel - Silicon	0.2	0.28	0.97	0.1	0.012	1.5	1.2	0.33	1.01	0.1	0.43	0.03	0.11	0.0005			0.48
SPL-CM-3A-25MM	Steel - Low Alloy	0.295	0.27	0.37	0.016	0.0013	1.87	1.82	0.33	0.16	0.007	0.012	0.05	0.005	0.0002		0.007	0.006
SPL-CM-4B-25MM	Steel - Low Alloy	0.72	0.24	0.5	0.023	0.012	2.23	1.4	0.33	0.4	0.18	0.115	0.025	0.015	0.017		0.013	0.071
SPL-CM-5B-10MM	Steel - Low Alloy	1.09	0.817	1.28	0.021	0.012	2.07	0.23	0.1	0.13	0.06	0.022	0.083	0.018	0.002		0.0135	0.015
SPL-CM-5B-25MM	Steel - Low Alloy	1.09	1.39	1.28	0.021	0.012	2.07	0.23	0.1	0.13	0.06	0.022	0.083	0.018	0.002		0.0135	0.015
SPL-CM-6A-10MM	Steel - Low Alloy	0.52	0.27	0.37	0.016	0.058	0.37	0.19	0.04	0.05	0.05	0.03	0.02	0.025	0.015		0.009	0.028
SPL-CM-6A-25MM	Steel - Low Alloy	0.52	0.27	0.37	0.016	0.058	0.37	0.19	0.04	0.05	0.05	0.03	0.02	0.025	0.015		0.009	0.028
SPL-CM-7A-25MM	Steel - Low Alloy	0.05	0.56	1.17	0.011	0.016	0.1	0.05	0.015	0.09	0.012	0.007	0.13	0.005	0.0003		0.01	0.004
SPL-CM-8A-10MM	Steel - Low Alloy	0.16	0.18	2.13	0.007	0.011	1.38	0.03	(0.001)	0.03	0.008	0.004	0.02	(0.002)	0.004			0.034
SPL-CM-8A-25MM	Steel - Low Alloy	0.16	0.18	2.13	0.007	0.011	1.38	0.03	(0.001)	0.03	0.008	0.004	0.02	(0.002)	0.004			0.034
SPL-CM-16A-25MM	Steel - Low Alloy	0.355	0.77	0.92	0.043	0.033	0.7	0.72	0.405	0.293	0.319	0.056	0.125	0.058	0.012	0.0006	0.015	0.066
SPL-BO-2B	Low alloy Steel	0.515	0.309	0.745	0.0093		0.100		0.0196	0.0017	(0.005)		0.057	0.0055		(0.0008)	0.004	
SPL-LA-1B-10MM	Low alloy steel QCM	0.005	0.02	0.13	0.004	0.017	0.042	0.014	0.007	0.01	0.004	(0.002)	0.003	(0.002)	0.01	0.0016	0.003	(0.001)
SPL-LA-1B-25MM	Low alloy steel QCM	0.005	0.02	0.13	0.004	0.017	0.042	0.014	0.007	0.01	0.004	(0.002)	0.003	(0.002)	0.01	0.0016	0.003	(0.001)

Analyte - Measured Values (continued)

Code	Pb	Sb	Sn	Ta	Ti	W	Zn	Zr		Size	Type
SPL-CM-1B-10MM	0.005	0.01	0.012		0.066	0.064				Ø 35-43x10 mm	RM
SPL-CM-1B-25MM	0.005	0.01	0.012		0.066	0.064				Ø 35-43x25 mm	RM
SPL-CM-2A-10MM	0.06	0.008	0.08	0.027	0.34	0.23		0.03		Ø 35-43x10 mm	RM
SPL-CM-2A-25MM	0.06	0.008	0.08	0.027	0.34	0.23		0.03		Ø 35-43x25 mm	RM
SPL-CM-3A-25MM			0.007		0.006	0.015				Ø 35-43x25 mm	RM
SPL-CM-4B-25MM	0.022	0.052	0.028		0.12	0.116	0.007			Ø 35-43x25 mm	RM
SPL-CM-5B-10MM	0.01	0.006	0.012		0.02	0.03		0.09		Ø 35-43x10 mm	RM
SPL-CM-5B-25MM	0.01	0.006	0.012		0.02	0.03		0.09		Ø 35-43x25 mm	RM
SPL-CM-6A-10MM	0.017	0.03	0.017		0.03	0.04		0.04		Ø 35-43x10 mm	RM
SPL-CM-6A-25MM	0.017	0.03	0.017		0.03	0.04		0.04		Ø 35-43x25 mm	RM
SPL-CM-7A-25MM	0.0014	0.0003	0.008		0.14	0.01		0.042		Ø 35-43x25 mm	RM
SPL-CM-8A-10MM			(0.003)		(0.001)	0.01				Ø 35-43x10 mm	RM
SPL-CM-8A-25MM			(0.003)		(0.001)	0.01				Ø 35-43x25 mm	RM
SPL-CM-16A-25MM	0.053	0.027	0.025		0.099	0.141		0.062		Ø 35-43x25 mm	RM
SPL-BO-2B			0.0062		(0.001)	0.006				Ø 37x25 mm	RM
SPL-LA-1B-10MM	(0.0007)	(0.002)	(0.001)		(0.001)	0.01		(0.002)		Ø 35-43x10 mm	RM
SPL-LA-1B-25MM	(0.0007)	(0.002)	(0.001)		(0.001)	0.01		(0.002)		Ø 35-43x25 mm	RM

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SPL - Low Alloyed Steel

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	As	B	Ca	N	Nb
SPL-LA-2D-25MM	Low alloy steel QCM	0.065	1.48	0.26	0.011	0.052	0.135	2	0.57	0.53	0.3	0.26	0.18	0.095	0.007	0.0004	0.008	0.24
SPL-LA-3E-25MM	Low alloy steel QCM	0.6	0.72	0.7	0.044	0.026	0.94	1.01	0.32	0.22	0.22	0.11	0.061	0.056	0.005	0.001	0.01	0.077
SPL-LA-4C-25MM	Low alloy steel QCM	0.95	0.07	1.63	0.021	0.012	1.78	0.045	0.008	0.056	0.01	0.006	0.048	0.003	0.0005			0.053
SPL-LA-5B-10MM	Low alloy steel QCM	0.38	0.39	1.75	0.017	0.01	3.6	2.43	0.75	0.12	0.47	0.075	0.073	0.016	0.0009		0.02	0.06
SPL-LA-5B-25MM	Low alloy steel QCM	0.38	0.39	1.75	0.017	0.01	3.6	2.43	0.75	0.12	0.47	0.075	0.073	0.016	0.0009		0.02	0.06

Analyte - Measured Values (continued)

Code	Pb	Sb	Sn	Ti	W	Zr	Size	Type
SPL-LA-2D-25MM	0.05	0.04	0.085	0.3	0.29	0.003	Ø 35-43x25 mm	RM
SPL-LA-3E-25MM	0.009	0.024	0.026	0.135	0.1	0.13	Ø 35-43x25 mm	RM
SPL-LA-4C-25MM			0.006	0.002	0.008		Ø 35-43x10 mm	RM
SPL-LA-5B-10MM	0.015	0.011	0.028	0.05	0.59	0.017	Ø 35-43x10 mm	RM
SPL-LA-5B-25MM	0.015	0.011	0.028	0.05	0.59	0.017	Ø 35-43x10 mm	RM

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IMZ - Low Alloyed Steel

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	B	Ca	N	Nb
IMZ-51-1	51/1 - Low Alloy Steel	0.4	0.29	1.53	0.023	(0.009)	0.62	0.15	1.5	0.45	(0.013)						
IMZ-52-1	52/1 - Low Alloy Steel	0.41	1.38	0.25	0.012	0.009	0.12	2.35	0.041	0.094							
IMZ-53-1	53/1 - Low Alloy Steel	0.41	0.104	0.6	0.018	0.011	2.85	0.28	0.13	0.17	0.28						
IMZ-54-1	54/1 - Low Alloy Steel	0.43	0.17	0.14	0.009	0.010	0.12	4.01	0.007	0.034	0.19						
IMZ-56-1	56/1 - Low Alloy Steel	0.41	1.69	0.25	0.011	0.007	0.43	0.69	0.66	0.41	0.19						
IMZ-57-1	57/1 - Low Alloy Steel	0.46	0.58	1.05	0.028	0.012	1.67	0.15	0.48	0.14	0.34						
IMZ-58-1	58/1 - Low Alloy Steel	0.4	0.35	1.81	0.026	0.012	0.2	1.44	0.21	0.31	0.079						
IMZ-71	Low Alloy Steel	0.114	0.49	0.54	0.018	0.011	0.46	0.041	0.008	0.88	0.045		0.014	(0.002)			(0.005)
IMZ-72	Low Alloy Steel	0.081	0.34	0.31	0.092	0.012	0.52	0.039	0.006	0.27	(0.002)		0.013				0.001
IMZ-73	Low Alloy Steel	0.097	0.12	0.68	0.019	0.013	0.079	0.13	0.013	0.17	0.022		0.01				(0.01)
IMZ-74A	Low Alloy Steel	0.179	0.34	1.19	0.008	0.01	0.197	0.13	0.047	0.209	0.072	0.0043	0.012	(0.002)	(0.0004)	0.0118	0.041
IMZ-76	Low Alloy Steel	0.129	0.24	1.37	0.022	0.011	0.12	0.33	0.101	0.057	(0.006)		0.011	(0.001)			0.068
IMZ-101-2	101/2 - Low Alloy Steel	0.033	(0.092)	1.97	0.01	0.007	0.035	2.06	0.01	0.46	0.3		0.036	(0.0005)			

Analyte - Measured Values (continued)

Code	Ti	Zr		Size	Type
IMZ-51-1				Ø 40x40 mm	CRM
IMZ-52-1				Ø 40x40 mm	CRM
IMZ-53-1				Ø 40x40 mm	CRM
IMZ-54-1				Ø 40x40 mm	CRM
IMZ-56-1				Ø 40x40 mm	CRM
IMZ-57-1				Ø 40x40 mm	CRM
IMZ-58-1				Ø 40x40 mm	CRM
IMZ-71	(0.002)	(0.002)		Ø 40x40 mm	CRM
IMZ-72	0.021			Ø 40x40 mm	CRM
IMZ-73	(0.002)	(0.0025)		Ø 40x40 mm	CRM
IMZ-74A	0.022			Ø 43x30 mm	CRM
IMZ-76	(0.003)			Ø 40x40 mm	CRM
IMZ-101-2		(0.002)		Ø 40x40 mm	CRM

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IMZ - Low Alloyed Steel

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	B	Ca	N	Nb	Pb
IMZ-102-3	102/3 - Low Alloy Steel	1.11	1.06	0.15	0.014	(0.0045)	1.59	0.021	0.43	0.13	(0.012)		0.017	(0.0007)				
IMZ-103A	103A - Low Alloy Steel	0.49	0.42	0.78	0.066	0.051	0.58	0.57	0.18	0.27	0.17	0.002	0.026	0.006			0.04	
IMZ-110	Low Alloy Steel	0.011	0.009	0.015	0.008	0.01	0.007	0.019	0.025	0.051	0.002		0.003			0.0058		0.001
IMZ-110A	Low Alloy Steel	0.0034		0.067	0.0051	0.0045	0.027	0.021	0.0035	0.021	(0.0014)	0.0031	(0.001)			0.0037		
IMZ-111	Low Alloy Steel	0.106	0.55	0.31	0.01	0.039	0.072	0.23	0.084	0.036	0.022		0.017		0.0003	0.0133		
IMZ-112	Low Alloy Steel	0.195	0.27	0.43	0.022	0.016	0.034	0.046	0.043	0.055	0.045		0.034			0.01	0.013	
IMZ-113	Low Alloy Steel	0.24	0.1	0.5	0.022	0.025	1.25	0.13	0.05	0.11	0.039		0.004			0.0154		
IMZ-115	Low Alloy Steel	0.36	0.043	0.65	0.045	0.024	0.27	0.35	0.07	0.25	(0.063)		(0.015)			0.0087	0.09	
IMZ-116	Low Alloy Steel	0.64	0.25	0.94	0.025	0.035	0.72	0.022	0.074	0.33	0.076		0.025			0.013		
IMZ-117	Low Alloy Steel	0.49	0.34	0.77	0.038	0.015	0.94	0.29	0.024	0.41	0.087		0.023		(0.0002)	0.0154	0.041	
IMZ-118	Low Alloy Steel	0.69	0.3	1.72	0.026	(0.049)	0.14	0.19	0.058	0.18	0.059		(0.014)		0.0002	0.012		
IMZ-119	Low Alloy Steel	0.93	0.16	1.15	0.018	0.006	0.062	0.049		0.042	0.006		0.007		(0.0002)	0.0086		

Analyte - Measured Values (continued)

Code	Sb	Sn	Ti	Zr		Size	Type
IMZ-102-3				(0.007)		Ø 40x40 mm	CRM
IMZ-103A		(0.005)	0.17			Ø 40x40 mm	CRM
IMZ-110	0.014	0.026				Ø 40x40 mm	CRM
IMZ-110A			(0.0006)			Ø 43x30 mm	CRM
IMZ-111						Ø 40x40 mm	CRM
IMZ-112		0.15	0.01			Ø 40x40 mm	CRM
IMZ-113						Ø 40x40 mm	CRM
IMZ-115						Ø 40x40 mm	CRM
IMZ-116			(0.0008)			Ø 40x40 mm	CRM
IMZ-117			(0.0014)			Ø 40x40 mm	CRM
IMZ-118		0.22				Ø 40x40 mm	CRM
IMZ-119			(0.0007)			Ø 40x40 mm	CRM

Analyte - Measured Values

Code	Description	Al	Ca	N		Size	Type
IMZ-130	Low Alloy Steel	0.0046	0.0024	0.0153		Ø 40x40 mm	CRM
IMZ-131	Low Alloy Steel	0.0043		0.0333		Ø 40x40 mm	CRM
IMZ-132	Low Alloy Steel	0.0021	0.0002	0.0097		Ø 40x40 mm	CRM
IMZ-133	Low Alloy Steel			0.036		Ø 40x40 mm	CRM
IMZ-134	Low Alloy Steel	0.0124	0.0005			Ø 40x40 mm	CRM
IMZ-135	Low Alloy Steel	0.0274	0.0008	0.0238		Ø 40x40 mm	CRM
IMZ-136	Low Alloy Steel	0.0034	0.00031			Ø 40x40 mm	CRM
IMZ-137	Low Alloy Steel	0.0017	0.00025	0.0083		Ø 40x40 mm	CRM
IMZ-138	Low Alloy Steel	0.0022		0.0063		Ø 40x40 mm	CRM
IMZ-139	Low Alloy Steel	-0.029	0.0031	0.0113		Ø 40x40 mm	CRM

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IMZ - Low Alloyed Steel

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Ca	N	Nb	Pb	Sn
IMZ-140	Low Alloy Steel												0.0307	0.0015	0.0083			
IMZ-141	Low Alloy Steel												0.0071		0.0154			
IMZ-162	High Alloy Steel	0.19	0.59	1.31	0.021	0.014	0.91	1.64	0.52	0.077	0.045		(0.04)					
IMZ-169	High Alloy Steel	0.099	0.35	0.54	0.015	0.0155	2.2	0.073	1.03	0.128	(0.016)	0.012	0.075		0.0193	(0.0045)	(0.001)	0.062
IMZ-172	Tool Steel	1.03	0.21	0.71	0.018	0.047	4.47	0.12	0.96	0.128	0.2	0.012	0.062		0.0192			0.01
IMZ-173	Tool Steel	0.3	1.15	0.43	0.029	0.02	5.52	0.42	1.5	0.32	0.47	(0.013)	0.06		0.0342			0.012
IMZ-174	Tool Steel	0.33	0.93	0.32	0.029	0.023	5.1	0.13	1.24	0.17	0.98	0.011	0.08		0.0288			0.01
IMZ-175	Tool Steel	0.099	0.22	0.25	0.016	0.004	0.515	3.12	0.025	0.13	0.014	(0.013)	0.043		0.0099			0.011
IMZ-176A	Tool Steel	0.15	0.35	0.75	0.018	0.003	0.41	3.62	0.027	0.103	(0.061)	(0.01)	(0.058)		0.0129			0.009
IMZ-178	Tool Steel	0.29	0.28	0.65	0.016	0.003	1.26	2.09	0.2	0.14	0.011	0.015	0.051		0.016	0.105		0.011

Analyte - Measured Values (continued)

Code	Ti	W		Size	Type
IMZ-140				Ø 40x40 mm	CRM
IMZ-141				Ø 40x40 mm	CRM
IMZ-162	0.12			Ø 40x40 mm	CRM
IMZ-169	0.001			Ø 40x40 mm	CRM
IMZ-172	(0.002)	0.011		Ø 40x40 mm	CRM
IMZ-173	(0.002)	0.1		Ø 40x40 mm	CRM
IMZ-174	(0.001)	0.021		Ø 40x40 mm	CRM
IMZ-175		(0.019)		Ø 40x40 mm	CRM
IMZ-176A		(0.015)		Ø 40x40 mm	CRM
IMZ-178		0.017		Ø 40x40 mm	CRM

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NCS - Low Alloyed Steel

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Ce	Al(s)	Al(t)	As	B
NCS HS11714-2	Low Alloy Steel	0.076	0.966	0.095	0.027	0.01	1.89	0.988	1.09	0.216	0.241	0.161	0.858	<0.0001	0.858		0.0025	0.01
NCS HS11714-3	Low Alloy Steel	0.93	1.1	1.2	0.011	0.044	3.23	0.501	0.292	0.364	0.061	0.504	0.108	<0.0001	0.102		0.007	0.015
NCS HS11759A	Low alloy steel	0.101	0.249	0.4	0.043	0.03	0.068	0.066		0.086			0.264				0.0058	0.0014
NCS HS11760C	Alloy structure steel	0.168	0.348	1.36	0.018	0.014	0.059	0.020	0.025	0.038	0.069							
NCS HS11764C	Low alloy steel	0.239	0.187	0.552	0.014	0.018	0.026	0.039		0.202								
NCS HS11766C	Alloy structure steel	0.225	0.386	1.04	0.012	0.016	1.06	0.122		0.174			0.096				0.0055	0.0016
NCS HS11774	Low Alloy Steel GCr15	1.02	0.25	0.34	0.015	0.023	1.48	0.036		0.037	0.022							
NCS HS13750	Low alloy steel	0.131	0.175	0.523	0.0126	0.0257	0.970		0.172									
NCS HS13752	Low alloy steel	0.517	0.204	0.986	0.0261	0.0108	0.685		0.258		0.094							
NCS HS13753	Low alloy steel	0.592	0.464	0.481	0.040	0.0397	0.752		0.302		0.122							
NCS HS13754	Low alloy steel	0.136	0.444	0.624	0.131	0.021	0.856		0.378	0.384	0.192							
NCS HS13755	Low alloy steel	0.420	0.301	0.924	0.024	0.020	0.960		0.187									
NCS HS13756	Low alloy steel	0.032	0.204	0.279	0.159	0.023				0.358	0.063							
NCS HS13758	Low alloy steel	0.165	0.502	1.451	0.0176	0.0221	0.34		0.143									
NCS HS13759	Low alloy steel	0.199	0.410	1.302	0.0171	0.022	0.384		0.161									
NCS HS15749	Low Carbon Silicon steel	0.0045	1.54	0.247	0.010	0.0054									0.048	0.050		0.0026
NCS HS20745	Steel 10PCuRE	0.068	0.33	0.813	0.1	0.024				0.297	0.022			0.014				
NCS HS20747	09MnNb	0.083	0.472	0.967	0.02	0.015												

Analyte - Measured Values (continued)

Code	B(s)	Bi	Ca	La	N	Nb	Pb	Sb	Sn	Ti	Ti(s)	W	Zr		Size	Type
NCS HS11714-2	0.01	0.0014	0.0016			0.206	0.0021	0.0007	0.0016	0.259	0.256	2.07	0.045		Ø 38x30 mm	CRM
NCS HS11714-3	0.013	0.013	(0.0005)			0.248	0.0023	0.0023	0.011	0.322	0.317	0.814	0.011		Ø 38x30 mm	CRM
NCS HS11759A									0.0024						Ø 37x45 mm	CRM
NCS HS11760C			(0.0003)		0.011	0.044									Ø 37x40 mm	CRM
NCS HS11764C															Ø 38x40 mm	CRM
NCS HS11766C									0.0031	0.073					Ø 38x40 mm	CRM
NCS HS11774															Ø 36x50 mm	CRM
NCS HS13750															Ø 38x38 mm	CRM
NCS HS13752															Ø 38x38 mm	CRM
NCS HS13753										0.0084					Ø 38x38 mm	CRM
NCS HS13754															Ø 38x38 mm	CRM
NCS HS13755															Ø 38x38 mm	CRM
NCS HS13756															Ø 38x38 mm	CRM
NCS HS13758										0.173					Ø 38x38 mm	CRM
NCS HS13759															Ø 38x38 mm	CRM
NCS HS15749	0.0018														Ø 35x32 mm	CRM
NCS HS20745				0.0076											Ø 35x40 mm	CRM
NCS HS20747															Ø 35x40 mm	CRM

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NCS - Low Alloyed Steel (Sets)

		Analyte - Measured Values												
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	Al		Size	Type
NCS HS16704-1	Steel 38CrMoAl only set of 6	0.196	0.447	0.543	0.0106	0.0101	2.22	0.46	0.476	0.082	0.383		Ø 32x48 mm	CRM
NCS HS16704-2	Steel 38CrMoAl only set of 6	0.141	0.581	0.79	0.0102	0.01	1.86	0.103	0.341	0.054	0.508		Ø 32x48 mm	CRM
NCS HS16704-3	Steel 38CrMoAl only set of 6	0.37	0.239	0.469	0.0166	0.0492	1.58	0.197	0.148	0.463	0.79		Ø 32x48 mm	CRM
NCS HS16704-4	Steel 38CrMoAl only set of 6	0.706	0.224	0.196	0.0397	0.0375	1.97	0.479	0.391	0.07	0.247		Ø 32x48 mm	CRM
NCS HS16704-5	Steel 38CrMoAl only set of 6	0.238	0.364	0.546	0.0268	0.0104	1.16	0.067	0.092	0.295	0.962		Ø 32x48 mm	CRM
NCS HS16704-6	Steel 38CrMoAl only set of 6	0.532	0.31	0.421	0.0379	0.0093	0.99	0.045	0.044	0.12	1.38		Ø 32x48 mm	CRM

		Analyte - Measured Values													
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Al	Ti	Size	Type
NCS HS23718-1	Middle Low Alloy Steel only set of 6	0.496	0.27	0.732	0.051	0.014	0.81	1.47	0.504	0.439	0.52	0.02	0.325	Ø 35x30 mm	CRM
NCS HS23718-2	Middle Low Alloy Steel only set of 6	0.115	0.79	2.02	0.06	0.006	1.78	0.494	0.079	0.082	0.12	0.06	0.105	Ø 35x30 mm	CRM
NCS HS23718-3	Middle Low Alloy Steel only set of 6	0.201	0.7	1.24	0.015	0.049	0.4	1.02	0.251	0.299	0.22	0.661	0.232	Ø 35x30 mm	CRM
NCS HS23718-4	Middle Low Alloy Steel only set of 6	0.356	0.42	1.68	0.0042	0.089	1.35	0.238	0.107	0.144	0.34	0.142	0.402	Ø 35x30 mm	CRM
NCS HS23718-5	Middle Low Alloy Steel only set of 6	0.657	0.15	0.463	0.033	0.025	2.29	0.117	0.974	0.07	0.06	0.27	0.497	Ø 35x30 mm	CRM
NCS HS23718-6	Middle Low Alloy Steel only set of 6	0.048	0.07	0.102	0.018	0.003	0.1	2.0	0.686	0.561	0.03	0.569	0.011	Ø 35x30 mm	CRM

		Analyte - Measured Values																
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Pb	Sn	W	Size	Type
NCS HS23720-1	Middle Low Alloy Steel only set of 6	0.763	0.359	0.216	0.032	0.013	3.24	0.291	0.767	0.092	0.268	0.028	0.0069	0.011	0.0075	1.45	Ø 35x30 mm	CRM
NCS HS23720-2	Middle Low Alloy Steel only set of 6	1.11	0.286	0.104	0.038	0.0047	5.6	0.407	0.5	0.075	0.053	0.0086	0.0051	0.074	0.007	2.0	Ø 35x30 mm	CRM
NCS HS23720-3	Middle Low Alloy Steel only set of 6	0.393	1.37	0.842	0.017	0.029	4.38	0.148	1.26	0.205	0.8	0.105	0.077	0.0087	0.0076	0.496	Ø 35x30 mm	CRM
NCS HS23720-4	Middle Low Alloy Steel only set of 6	0.599	0.08	0.432	0.021	0.034	3.94	0.199	0.946	0.136	0.66	0.049	0.019	(0.0001)	0.02	0.97	Ø 35x30 mm	CRM
NCS HS23720-5	Middle Low Alloy Steel only set of 6	0.088	1.09	1.67	0.005	0.021	2.43	0.084	1.94	0.474	1.17	1.98	0.087	0.0053	0.052	0.082	Ø 35x30 mm	CRM
NCS HS23720-6	Middle Low Alloy Steel only set of 6	0.2	0.649	1.21	0.01	0.045	4.91	0.095	1.61	0.301	1.01	1.49	0.084	(0.0001)	0.032	0.204	Ø 35x30 mm	CRM

		Analyte - Measured Values															
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	As	Bi	Nb	Pb	Sb	Sn	Zr
NCS HS93701-1	Middle Low Alloy - only available as set	0.062	1.23	0.093	0.024	0.0060	1.85	0.30	4.19	0.22	0.004	0.0019	0.85	0.038	0.0515	0.0020	0.103
NCS HS93701-2	Middle Low Alloy - only available as set	0.111	0.32	0.934	0.015	0.0041	2.48	0.59	4.05	0.177	0.011	0.0064	1.04	0.017	0.035	0.0083	0.57
NCS HS93701-3	Middle Low Alloy - only available as set	0.164	0.98	0.379	0.0099	0.0133	3.86	0.813	2.43	0.109	0.0146	0.0102	0.72	0.012	0.032	0.0215	0.436
NCS HS93701-4	Middle Low Alloy - only available as set	0.309	0.198	1.06	0.0081	0.0126	4.83	0.480	1.86	0.31	0.0174	0.013	0.290	0.007	0.0077	0.0180	0.112
NCS HS93701-5	Middle Low Alloy - only available as set	0.429	0.71	0.76	0.0082	0.0398	3.08	0.930	2.93	0.38	0.069	0.0203	0.472	0.0066	0.00403	0.037	0.234

Code		Size	Type
NCS HS93701-1		Ø 36×30 mm	CRM
NCS HS93701-2		Ø 36×30 mm	CRM
NCS HS93701-3		Ø 36×30 mm	CRM
NCS HS93701-4		Ø 36×30 mm	CRM
NCS HS93701-5		Ø 36×30 mm	CRM

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NCS - Low Alloyed Steel (Sets)

		Analyte - Measured Values									
Code	Description	C	Si	Mn	P	S	Cr	Ni		Size	Type
NCS HS93702-1	Alloy Steel - only available as set	0.053	1.37	5.02	0.055	0.0027	17.51	2.44		Ø 38x30 mm	CRM
NCS HS93702-2	Alloy Steel - only available as set	0.18	1.04	6.6	0.038	0.010	15.26	3.61		Ø 38x30 mm	CRM
NCS HS93702-3	Alloy Steel - only available as set	0.28	0.94	8.37	0.024	0.016	12.67	4.56		Ø 38x30 mm	CRM
NCS HS93702-4	Alloy Steel - only available as set	0.35	0.74	11.00	0.018	0.025	10.72	5.67		Ø 38x30 mm	CRM
NCS HS93702-5	Alloy Steel - only available as set	0.42	0.40	12.93	0.011	0.033	8.22	6.68		Ø 38x30 mm	CRM

		Analyte - Measured Values														
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al(s)	Al(t)	As	B(s)
NCS HS93703-1	Medium-Low Alloy Steel - only available as set	1.08	0.681	2.35	0.0057	(0.008)	3.98	0.028	0.0077	0.048	0.0090	0.0047	0.381	0.387	0.032	0.023
NCS HS93703-2	Medium-Low Alloy Steel - only available as set	0.055	0.827	0.021	0.027	0.0033	3.09	1.09	1.56	0.422	0.376	0.262	0.91	0.92	0.0034	0.008
NCS HS93703-3	Medium-Low Alloy Steel - only available as set	0.792	1.09	1.34	0.013	0.038	2.11	0.533	0.397	0.532	0.071	0.488	0.103	0.107	0.0019	0.0037
NCS HS93703-4	Medium-Low Alloy Steel - only available as set	0.475	2.57	0.612	0.015	0.015	1.31	2.01	0.977	0.687	0.709	0.403	0.078	0.083	0.056	0.0048
NCS HS93703-5	Medium-Low Alloy Steel - only available as set	0.651	0.024	1.53	0.036	0.0052	0.021	2.98	0.631	0.236	0.231	0.094	(1.27)	(1.29)	0.0064	0.0015
NCS HS93703-6	Medium-Low Alloy Steel - only available as set	0.246	0.274	0.211	0.045	0.0058	0.505	3.83	0.203	0.092	0.526	0.145	0.63	0.64	0.011	0.003

	Analyte - Measured Values (continued)												
Code	B(t)	Bi	Ca	Nb	Pb	Sb	Sn	Ti	W	Zr		Size	Type
NCS HS93703-1	0.025	0.0011	0.0009	0.351	0.0016	(0.0001)	0.014	0.473	0.293	0.0031		Ø 38x30 mm	CRM
NCS HS93703-2	0.0083	0.0006	0.001	0.254	0.0008	0.002	0.0069	0.346	1.97	0.087		Ø 38x30 mm	CRM
NCS HS93703-3	0.0041	0.0004	0.001	0.506	0.0007	0.004	0.054	0.016	0.755	0.014		Ø 38x30 mm	CRM
NCS HS93703-4	0.005	(0.0002)	(0.0001)	0.167	0.0006	0.0095	0.012	0.035	1.48	0.069		Ø 38x30 mm	CRM
NCS HS93703-5	0.0017	0.0015	0.007	0.0057	0.0007	0.01	0.015	0.111	0.05	0.41		Ø 38x30 mm	CRM
NCS HS93703-6	0.0033	(0.0002)	(0.0001)	0.07	0.0011	0.006	0.017	0.246	1.04	0.22		Ø 38x30 mm	CRM

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MQ (DSZU) - Low Alloyed Steel

		Analyte - Measured Values														
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	As	B	Ca
MQ-C01	Low alloyed steel	0.004	0.014	0.049	0.002	0.002	0.04	0.53	0.124	0.008	(0.003)	0.217	0.004	(0.002)	(0.0004)	
MQ-C05A	Low alloyed steel	0.32	0.34	1.68	0.018	0.006	1.08	1.33	0.2	0.45	0.2	0.11	0.028	(0.005)	0.01	
MQ-C06	Low alloyed steel	0.395	0.097	0.416	0.035	0.039	0.315	0.459	0.016	0.04	0.072	0.034	0.029	(0.003)	0.003	
MQ-C07	Low alloyed steel	0.589	1	0.903	0.033	0.037	0.201	0.263	0.377	0.13	0.988	0.165	0.039	(0.0005)	0.005	
MQ-C08	Low alloyed steel	0.184	0.389	0.756	0.019	0.008	2.34	(6.6)	0.514	0.55	0.216	0.062	0.011	(0.011)	0.011	
MQ-C042	Low alloy steel (DSZU 083.33-2013)	0.12	0.319	0.562	0.0123	0.0058	0.962	0.203	0.286	0.131	0.178	0.009	0.023	0.0073	0.0002	0.001
MQ-C043	Low alloy steel (DSZU 083.33-2013)	0.239	0.114	2.18	0.054	0.07	0.44	2.93	0.146	0.5	0.366	0.005	0.071	0.0017	(0.0005)	0.0005
MQ-C044	Low alloy steel (DSZU 083.33-2013)	0.303	1.06	1.05	0.0117	0.0044	1.04	1.56	0.012	0.115	0.004	0.019	0.02	0.0063	0.0004	0.0005
MQ-C045	Low alloy steel (DSZU 083.33-2013)	0.382	0.262	0.394	0.008	0.0144	1.41	0.093	0.219	0.097	0.004	0.007	0.93	0.0052	(0.0004)	0.0005

	Analyte - Measured Values (continued)											
Code	N	Nb	Pb	Sb	Sn	Ti	W	Zn	Zr		Size	Type
MQ-C01		(0.001)	(0.003)		(0.0008)	0.002	(0.026)		(0.0004)		Ø 40x30 mm	CRM
MQ-C05A		0.15	(0.003)	(0.0005)	0.01	0.05	0.27				Ø 40x25 mm	CRM
MQ-C06		(0.029)	(0.002)		(0.006)	(0.002)	0.026		(0.0001)		Ø 40x30 mm	CRM
MQ-C07		0.091	(0.0003)	(0.0005)	(0.0026)	0.059	0.14	(0.0003)			Ø 40x30 mm	CRM
MQ-C08		0.122			(0.014)	0.06	0.966	(0.003)	(0.006)		Ø 40x30 mm	CRM
MQ-C042	0.01	0.0025			0.0064	0.0018	(0.006)				Ø 40x25 mm	CRM
MQ-C043	0.01	0.004			0.0023	0.046	0.082				Ø 40x25 mm	CRM
MQ-C044	0.0108	0.0026			0.0046	0.0058	0.005				Ø 40x25 mm	CRM
MQ-C045	0.008	0.004			0.005	0.0112	(0.011)				Ø 40x25 mm	CRM

IPT - Low Alloyed Steel

		Analyte - Measured Values														
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Al(s)	As	N
IPT-500	Low Alloy Steel (A 242)	0.106	0.282	0.844	0.016	0.0048	0.612	0.018	0.0013	0.27	0.003	0.0046	0.046		0.002	0.0092
IPT-502	Low Alloy Steel (AISI 8620)	0.21	0.198	0.823	0.018	0.026	0.485	0.408	0.155	0.121		0.0083	0.024			0.0069
IPT-503	Plain Carbon Steel (AISI 1045)	0.456	0.218	0.682	0.027	0.027	0.16	0.063	0.02	0.129		0.006	0.018			0.0082
IPT-504	Plain Carbon Steel (SAE 1541)	0.395	0.232	1.474	0.019	0.031	0.098	0.048	0.009	0.096		0.0077	0.032	0.028		0.0078

	Analyte - Measured Values (continued)						
Code	Nb	Pb	Sn	Ti		Size	Type
IPT-500	0.008		0.002	0.0014		Ø 35x20 mm	CRM
IPT-502				0.0016		Ø 35x20 mm	CRM
IPT-503		0.008		0.0011		Ø 35x20 mm	CRM
IPT-504	(0.012)			0.0011		Ø 35x20 mm	CRM

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HRT - Low Alloyed Steel

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	B	Ca	N	Nb	Ti
HR-FE 1999 N	Low Alloy Steel	0.16	0.22	0.59	0.011	0.005	0.87	0.09	0.46	0.11	0.021		0.027	0.0002		0.0091	0.002	0.001
HR-FE 2000 N	Low Alloy Steel	0.294	0.3	0.49	0.014	0.007	1.99	1.96	0.34	0.07	0.017	0.012	0.025		0.0015			
HR-FE2006 N	Low Alloy Steel	0.9	0.28	1.13	0.13	0.003	0.54	0.04	0.01	0.03	0.059		0.025		0.0022			0.005
HR-FE2009 N	Low Alloy Steel	0.12	0.32	0.55	0.01	0.003	2.56	0.25	1.02	0.08	0.015		0.03		0.002			
HR-FE2010 N	Low Alloy Steel	0.31	0.28	0.56	0.015	0.034	2.45	0.25	0.17	0.05	0.117	0.012	0.049					
HR-FE2012 N	Low Alloy Steel	0.18	0.31	0.7	0.01	0.008	0.25	0.13	0.26	0.14			0.03					
HR-FE2013 N	Low Alloy Steel	0.17	0.33	0.57	0.13	0.01	1.52	1.45	0.26	0.09			0.026					
HR-FE2014 N	Low Alloy Steel	0.91	0.24	1.97	0.012	0.004	0.35	0.02	0.01	0.01	0.066		0.016			0.0052		
HR-FE2015 N	Low Alloy Steel	0.42	0.24	0.83	0.007	0.028	1.03	0.32	0.21	0.15	0.006		0.023			0.0057		
HR-FE2016 N	Low Alloy Steel	0.42	0.24	0.83	0.007	0.028	1.03	0.32	0.21	0.15	0.006		0.023			0.0057		

Analyte - Measured Values (continued)

Code	W	Zn	Size	Type
HR-FE 1999 N			Ø 40x20 mm	RM
HR-FE 2000 N	0.025		Ø 40x20 mm	RM
HR-FE2006 N	0.54		Ø 29x20 mm	RM
HR-FE2009 N		0.004	Ø 40x40 mm	RM
HR-FE2010 N	(0.014)		Ø 40x20 mm	RM
HR-FE2012 N			Ø 40x20 mm	RM
HR-FE2013 N			Ø 34x20 mm	RM
HR-FE2014 N			Ø 35x20 mm	RM
HR-FE2015 N			Ø 35x20 mm	RM
HR-FE2016 N			Ø 35x20 mm	RM

VS - Low Alloyed Steel

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Al(s)	N	Nb
VS-RG30	Steel	0.38	0.45	0.357		0.013	3.06	0.62	0.62	0.161	0.63	0.5				0.139
VS-RG30/1	Steel	0.388	0.61	0.425		0.022	3.13	0.74	0.58	0.09	0.7	0.355	0.089			0.103
VS-UG0/9	Steel	1.33	0.17	0.208	0.004	0.0045	0.55	0.36	0.024	0.307			0.139	(0.001)	0.0022	0.041
VS-UG9/9	Steel	1.04	0.319	0.31	0.0053	0.021	0.31	0.242	0.308	0.163			0.073	(0.003)	0.0027	0.0046
VS-UG75	steel	0.98	0.248	0.286	0.0127	0.0089	1.43	0.201	(0.01)	0.111			(0.03)			(0.01)

Analyte - Measured Values (continued)

Code	Ti	W	Size	Type
VS-RG30		0.91	Ø 45-50 x 28-32 mm	CRM
VS-RG30/1	0.037	0.89	Ø 45-50 x 28-32 mm	CRM
VS-UG0/9	0.029		Ø 45-50 x 28-32 mm	CRM
VS-UG9/9	0.13		Ø 45-50 x 28-32 mm	CRM
VS-UG75	(0.001)		Ø 45-50 x 28-32 mm	CRM

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VASKUT - Low Alloyed Steel

		Analyte - Measured Values																
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	As	B	Nb	Pb	Sb
VASKUT-A13	Steel, low alloyed	0.104	0.81	0.49	0.053	0.073	0.14	1.93	0.91	0.166	0.23	0.011	0.042	0.07	0.002			0.024
VASKUT-A17	Steel, low alloyed	0.78	0.37	1.79	0.039	0.024	0.24	0.59	0.074	0.53	0.15	0.039	0.016	0.032	0.012	0.043		0.1
VASKUT-A18	Steel, low alloyed	1.16	0.15	1.99	0.014	0.007	0.9	0.125		0.066	0.1		0.02	0.003	0.011	0.035		0.005
VASKUT-B3	Steel, low alloyed	0.2	0.53	0.14	(0.012)	0.025	5.94			0.25	1.16							
VASKUT-B15	Steel, low alloyed	0.98	0.8	0.69	0.03	0.031	3.7	0.15	1.2	0.14	0.33	0.21	0.13					
VASKUT-B20	Steel, low alloyed	0.008	0.005	0.09	0.012	0.013	0.03	0.038	<0.01	0.034	<0.005	<0.01	0.01	0.003			0.002	
VASKUT-T3/2	Dynamo Steel	0.09	0.66	0.6	0.058	0.66	0.4	0.11		0.1								

	Analyte - Measured Values (continued)				
Code	Sn	Ti	W	Size	Type
VASKUT-A13	0.06	0.11		Ø 32-35x19 mm	CRM
VASKUT-A17	0.05	0.022		Ø 32-35x19 mm	CRM
VASKUT-A18	0.016	0.011		Ø 32-35x19 mm	CRM
VASKUT-B3			1.19	Ø 32-35x19 mm	CRM
VASKUT-B15		0.32		Ø 32-35x19 mm	CRM
VASKUT-B20	0.003	<0.002		Ø 32-35x19 mm	CRM
VASKUT-T3/2		<0.01		Ø 32-35x19 mm	CRM

SUS Nell - Low Alloyed Steel

		Analyte - Measured Values																
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	As	B	Ca	N	Nb
SUS-RMFE2/3	Steel, unalloyed	0.296	0.3	0.69	0.042	0.013	0.59	0.83	0.31	0.36	0.33	0.053	0.015	0.045	0.0015	<0.001	0.0197	
SUS-RMFEC/2	Steel, unalloyed	0.14	0.53	1.29	0.087	0.072	0.38	0.41	0.21	0.68	0.073	0.11	0.005	0.052	0.003	(0.0013)		0.0073
SUS-RMFED/6	Steel, unalloyed	0.83	1.03	0.31	0.022	0.019	2.72	0.12	1.44	0.11	0.037	0.32	0.22	0.007				0.37

	Analyte - Measured Values (continued)						
Code	Sb	Sn	Ti	W	Zr	Size	Type
SUS-RMFE2/3		0.033	0.045	0.038		Ø 40x40 mm	RM
SUS-RMFEC/2	0.019	0.049	0.0074	0.34	0.01	Ø 40x40 mm	RM
SUS-RMFED/6		0.013	0.18	0.085	0.073	Ø 40x40 mm	RM

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CKD - Low Alloyed Steel

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	As	B	Bi	Fe	N
CKD-180B	Steel, unalloyed/low alloyed	(0.003)	0.0038	0.047	0.004	0.0038	0.013	0.018	0.001	0.006		0.003	(0.001)	0.001			(99.9)	(0.0028)
CKD-180BH	Steel, unalloyed/low alloyed	(0.003)	0.001	0.047	0.004	0.0038	0.013	0.018	0.001	0.006		0.003	(0.001)	0.001			(99.9)	(0.0028)
CKD-181C	Steel, unalloyed/low alloyed	0.243	0.443	0.988	0.042	0.008	0.666	0.739	0.394	0.095	0.307	0.051	0.016	0.029	0.0076			(0.005)
CKD-182B	Steel, unalloyed/low alloyed	1.39	0.126	0.37	0.008	0.006	0.122	2.82	0.011	0.293	0.027	0.171	0.023	0.005	0.0003		94.59	0.0049
CKD-182BH	Steel, unalloyed/low alloyed	1.39	0.126	0.37	0.008	0.006	0.122	2.82	0.011	0.293	0.027	0.171	0.023	0.005	0.0003		94.59	0.0049
CKD-182C	Steel, unalloyed/low alloyed	1.36	0.111	0.363	0.009	0.008	0.123	2.8	0.012	0.294	0.028	0.171	0.028	(0.005)	0.0003			0.0049
CKD-183D	Steel, unalloyed/low alloyed	0.048	1.02	1.75	0.009	0.012	0.204	1.09	0.036	0.571	0.004	0.119	0.15	0.005		0.0005		0.0036
CKD-183E	Steel, unalloyed/low alloyed	0.049	1.03	1.76	0.009	0.013	0.205	1.1	0.036	0.575	(0.004)	0.119	0.149	(0.005)	0.0005			0.004
CKD-184A	Steel, unalloyed/low alloyed	1.013	0.348	2.23	0.028	(0.01)	2.33	0.25	0.016	0.089	0.017	0.007	0.022	0.006	0.0005		93.58	0.0104
CKD-184AH	Steel, unalloyed/low alloyed	1.013	0.348	2.23	0.028	(0.01)	2.33	0.25	0.016	0.089	0.017	0.007	0.022	0.006	0.0005		93.58	0.0104
CKD-186D	Steel, unalloyed/low alloyed	0.392	1.41	1.312	0.013	0.007	1.51	1.58	0.254	0.226	0.021	(0.006)	0.042	0.007	0.0009			(0.005)
CKD-187AH	Steel, unalloyed/low alloyed	0.119	0.567	0.525	0.035	0.018	3.51	0.085	0.565	0.036	0.558	0.071	0.019	(0.007)	0.0006	0.003	(93.01)	0.0122
CKD-187C	Low alloy steel	0.118	0.588	0.53	0.035	0.013	3.5	0.085	0.563	0.041	0.559	0.071	0.038	(0.007)	0.0006	(0.003)		(0.0153)
CKD-188A	Steel, unalloyed/low alloyed	0.332	0.775	0.169	0.006	0.033	5.11	0.445	1.28	0.057	0.802	0.006	0.093	(0.005)	0.0047		(90.53)	0.0076
CKD-188AH	Steel, unalloyed/low alloyed	0.332	0.775	0.169	0.006	0.033	5.11	0.445	1.28	0.057	0.802	0.006	0.093	(0.005)	0.0047		(90.53)	0.0076
CKD-189A	Steel, unalloyed/low alloyed	0.175	0.286	0.262	0.032	0.051	1.065	5.34	0.837	0.06	0.054	0.007	0.041	0.08	0.003		(90.01)	(0.004)
CKD-189AH	Steel, unalloyed/low alloyed	0.175	0.286	0.262	0.032	0.051	1.065	5.34	0.837	0.06	0.054	0.007	0.041	0.08	0.003		(90.01)	(0.004)

Analyte - Measured Values (continued)

Code	Nb	Pb	Sb	Se	Sn	Ta	Ti	W	Zr		Size	Type
CKD-180B	(0.0001)	(0.0002)	0.0004		0.0011			(0.0001)			Ø 44x25 mm	CRM
CKD-180BH	(0.0001)	(0.0002)	0.0004		0.0011			(0.0001)			Ø 44x13 mm	CRM
CKD-181C	0.063	0.0005	0.017		0.122	0.042	0.159	0.187	0.001		Ø 44x25 mm	CRM
CKD-182B	0.001		0.001		0.004		0.004	0.016	0.001		Ø 44x25 mm	CRM
CKD-182BH	0.001		0.001		0.004		0.004	0.016	0.001		Ø 44x13 mm	CRM
CKD-182C	(0.001)	(0.001)	(0.001)		(0.004)	(0.001)	(0.002)	0.018	(0.001)		Ø 44x25 mm	CRM
CKD-183D	0.006		0.001		0.051		0.003	0.354	0.077		Ø 44x25 mm	CRM
CKD-183E	(0.006)		(0.001)		0.053		(0.003)	0.351	0.08		Ø 44x25 mm	CRM
CKD-184A	0.013		0.002		0.008		0.01	(0.001)	0.002		Ø 44x25 mm	CRM
CKD-184AH	0.013		0.002		0.008		0.01	(0.001)	0.002		Ø 44x13 mm	CRM
CKD-186D	(0.004)		(0.002)		0.018	0.008	0.047	0.054	(0.002)		Ø 44x25 mm	CRM
CKD-187AH	0.028	0.003	0.023	0.004	0.013	0.015	0.087	(0.67)	0.013		Ø 44x13 mm	CRM
CKD-187C	0.028	(0.003)	0.023		0.014	0.016	0.11	0.67	0.011		Ø 44x25mm	CRM
CKD-188A	0.122	0.001	0.006		0.005	0.022	0.034	0.091	0.052		Ø 44x25 mm	CRM
CKD-188AH	0.122	0.001	0.006		0.005	0.022	0.034	0.091	0.052		Ø 44x13 mm	CRM
CKD-189A	0.017	0.002	(0.003)		0.029	(0.005)	0.326	1.3	0.005		Ø 44x25 mm	CRM
CKD-189AH	0.017	0.002	(0.003)		0.029	(0.005)	0.326	1.3	0.005		Ø 44x13 mm	CRM

Values listed in mass %: ( ) Uncertified Value,

C=Cast, CC=Chill Cast, CCC=Continuous Chill Cast, CW=Concast/Wrought, W=Wrought, SC=Single Cast, HIP=Hot Isostatically-pressed Powder

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Miscellaneous - Low Alloyed Steel

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Mg	As	B	Ca	N
CPT-833941	Steel, low alloyed	1.24	0.27	0.24	0.01	0.009	0.16	0.14	0.014	0.1	<0.01							
CTIF-TL-1668	Trip 800	0.2146	1.645	1.643	0.0137	0.0012	0.0173	0.0164	0.0014	0.0108	0.0016	0.0031	0.0371	0.0003	0.0016	0.00024	0.0019	0.0043
NILAB-100LA(D)	C-Steel	1.002		0.333	0.012	0.018	1.517	0.027	0.012	0.019	0.004	0.007	0.005		0.004			0.0046

Analyte - Measured Values (continued)

Code	Nb	Pb	Sb	Sn	Ti	W	Zn	Zr		Size	Type
CPT-833941						0.006				Ø 35x20 mm	RM
CTIF-TL-1668	0.0002	0.0007	0.0003	0.0047	0.0032		0.0008	0.0003		Ø 30x25 mm	RM
NILAB-100LA(D)					0.0007					Ø 34x20 mm	CRM

Values listed in mass %: ( ) Uncertified Value,

C=Cast, CC=Chill Cast, CCC=Continuous Chill Cast, CW=Concast/Wrought, W=Wrought, SC=Single Cast, HIP=Hot Isostatically-pressed Powder

ARMI - Tool Steel

		Analyte - Measured Values														
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Mg	As	B
IARM-39B-G	Tool Steel, AISI A-2 / UNS T30102	0.99	0.35	0.54	0.017	0.003	4.79	0.14	1.01	0.1	0.22	0.014	0.006			
IARM-39B-X	Tool Steel, AISI A-2 / UNS T30102	0.99	0.35	0.54	0.017	0.003	4.79	0.14	1.01	0.10	0.22	0.014	0.006			
IARM-39C-G	Tool Steel, AISI A-2 / T30102	0.99	0.28	0.45	0.019	0.007	4.99	0.144	0.97	0.077	0.21	0.013	0.017		(0.005)	0.001
IARM-39C-X	Tool Steel, AISI A-2 / T30102	0.99	0.28	0.45	0.019	0.007	4.99	0.144	0.97	0.077	0.21	0.013	0.017		(0.005)	0.001
IARM-40B-G	Tool Steel, AISI A-6 / UNS T30106	0.68	0.39	1.98	0.012	0.003	1.04	0.096	1.22	0.05	0.014	0.015	(0.006)			(0.001)
IARM-40B-X	Tool Steel, AISI A-6 / UNS T30106	0.68	0.39	1.98	0.012	0.003	1.04	0.096	1.22	0.05	0.014	0.015	(0.006)			(0.001)
IARM-40C-G	Tool Steel, AISI A-6 / UNS T30106	0.72	0.32	1.91	0.014	0.012	0.99	0.255	1.27	0.142	0.01	0.01	0.019		0.008	0.0009
IARM-40C-X	Tool Steel, AISI A-6 / UNS T30106	0.72	0.32	1.91	0.014	0.012	0.99	0.255	1.27	0.142	0.01	0.01	0.019		0.008	0.0009
IARM-41D-G	Carbon, Low Alloy Steel, AISI D-2 / T30402	1.519	0.256	0.256	0.021	0.012	11.5	0.114	0.74	0.047	0.77	0.02	0.014	(<0.001)	(0.01)	(0.0006)
IARM-41D-X	Carbon, Low Alloy Steel, AISI D-2 / T30402	1.519	0.256	0.256	0.021	0.012	11.5	0.114	0.74	0.047	0.77	0.02	0.014	(<0.001)	(0.01)	(0.0006)
IARM-42C-G	Tool Steel, AISI H-13 / UNS T20813	0.38	0.85	0.40	0.022	0.004	4.87	0.05	1.28	0.066	0.84	0.022	0.019		(0.01)	0.0010
IARM-42C-X	Tool Steel, AISI H-13 / UNS T20813	0.382	0.85	0.40	0.022	0.0037	4.86	0.051	1.29	0.066	0.84	0.022	0.018		(0.01)	0.0011
IARM-43B-G	Tool Steel, AISI L-6 / UNS T12006	0.711	0.251	0.56	0.008	0.013	0.651	1.39	0.206	0.18	0.0035	0.012	0.021		0.005	0.0002
IARM-43B-X	Tool Steel, AISI L-6 / UNS T12006	0.711	0.251	0.56	0.008	0.013	0.651	1.39	0.206	0.180	0.0035	0.012	0.021		0.005	0.0002
IARM-44C-G	Tool Steel, AISI M-2 / UNS T11302	0.82	0.89	0.301	0.027	0.004	4.04	0.132	5.02	0.12	1.91	0.247	0.05		(0.01)	(0.002)

	Analyte - Measured Values (continued)																
Code	Bi	Ca	N	Nb	Pb	Sb	Se	Sn	Ta	Ti	W	Zn	Zr		Size	Form	Type
IARM-39B-G			0.0096	0.006				0.004		0.003	(0.026)				Ø 38x19 mm	W	CRM
IARM-39B-X			0.0096	0.006				0.004		0.003	(0.026)				Ø 38x3 mm	W	CRM
IARM-39C-G		(0.001)	0.011	0.004	(0.0001)	(0.002)		0.005		0.0029	0.011		(0.002)		Ø 38x19 mm		CRM
IARM-39C-X		(0.001)	0.011	0.004	(0.0001)	(0.002)		0.005		0.0029	0.011		(0.002)		Ø 38x3 mm		CRM
IARM-40B-G			0.0107	0.005				0.004		0.003	0.013				Ø 38x19 mm	W	CRM
IARM-40B-X			0.0107	0.005				0.004		0.003	0.013				Ø 38x3 mm	W	CRM
IARM-40C-G		(0.001)	0.0083	0.003				0.008		0.008	0.009		(0.002)		Ø 38x19 mm	W	CRM
IARM-40C-X		(0.001)	0.0083	0.003				0.008		0.008	0.009		(0.002)		Ø 38x3 mm	W	CRM
IARM-41D-G	(<0.002)	(0.0008)	0.0152	0.004	(0.0008)	(<0.01)	(<0.002)	0.005	(<0.01)	0.003	0.034	(<0.002)	(0.002)		Ø 38x19 mm		CRM
IARM-41D-X	(<0.002)	(0.0008)	0.0152	0.004	(0.0008)	(<0.01)	(<0.002)	0.005	(<0.01)	0.003	0.034	(<0.002)	(0.002)		Ø 38x3 mm		CRM
IARM-42C-G			0.019	0.004	0.001			0.007		0.012	0.32				Ø 38x19 mm	W	CRM
IARM-42C-X			0.0201	0.004	0.0007			0.0006		0.0125	0.32				Ø 38x3 mm	W	CRM
IARM-43B-G		(0.002)	0.0093	0.004	<0.0005	<0.002		0.013		0.0047	<0.005		<0.001		Ø 38x19 mm	W	CRM
IARM-43B-X		(0.002)	0.0093	0.004	<0.0005	<0.002		0.013		0.0047	<0.005		<0.001		Ø 38x3 mm	W	CRM
IARM-44C-G			0.033	0.012	(0.002)	(0.004)		0.01	(0.004)	0.004	6	0.006	0.002		Ø 38x19 mm	W	CRM

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ARMI - Tool Steel

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Mg	As	B
IARM-44C-X	Tool Steel, AISI M-2 / UNS T11302	0.82	0.31	0.301	0.027	0.004	4.04	0.132	5.02	0.12	1.91	0.247	0.05		(0.01)	(0.002)
IARM-45B-G	Tool Steel, AISI O-6 / UNS T31506	1.42	0.92	0.90	0.010	0.008	0.061	0.024	0.24	0.018	0.003	0.004	0.010		0.002	(0.0001)
IARM-45B-X	Tool Steel, AISI O-6 / UNS T31506	1.42	0.92	0.90	0.010	0.008	0.061	0.024	0.24	0.018	0.003	0.004	0.010		0.002	(0.0001)
IARM-46B-G	Tool Steel, AISI S-1 / UNS T41901	0.45	0.004	0.27	0.019	0.004	1.09	0.108	0.222	0.147	0.17	0.013	0.011		(0.01)	0.0003
IARM-47A-X	Tool Steel, AISI S-5 / UNS T41905	0.58	1.92	0.80	0.015	0.010	0.29	0.23	0.41	0.25	0.22	0.009	0.017		0.014	0.0003
IARM-47B-G	Tool Steel, AISI S-5 / UNS T41905	0.59	1.96	0.79	0.017	0.006	0.23	0.09	0.2	0.17	0.17	0.007	0.014			(<0.001)
IARM-47B-X	Tool Steel, AISI S-5 / UNS T41905	0.59	1.96	0.79	0.017	0.006	0.23	0.09	0.2	0.17	0.17	0.007	0.014			(<0.001)
IARM-48C-G	Tool Steel, AISI T-1 / UNS T12001	0.77	0.45	0.39	0.029	0.018	4.24	0.204	0.17	0.13	1.27	0.22	0.017	0.002	0.012	(0.001)
IARM-48C-X	Tool Steel, AISI T-1 / UNS T12001	0.77	0.45	0.39	0.029	0.018	4.24	0.204	0.17	0.13	1.27	0.22	0.017	(0.002)	0.012	(0.001)
IARM-164A-G	SCLA, CLA1	0.004	0.019	1.57	0.004	0.07	0.032	1.29	0.009	0.88	0.78	0.006	0.72		(0.002)	(0.0001)
IARM-164A-X	SCLA, CLA1	0.004	0.019	1.57	0.004	0.070	0.032	1.29	0.009	0.88	0.78	0.006	0.72		(0.0002)	(0.0001)
IARM-180A-G	SCLA, CLA11	0.007	0.023	0.41	0.004	0.046	0.037	1.29	0.006	0.89	0.76	0.004	0.76		0.004	0.0004
IARM-180A-X	SCLA, CLA11	0.007	0.023	0.41	0.004	0.046	0.037	1.29	0.006	0.89	0.76	0.004	0.76		(0.004)	0.0004
IARM-251A-G	Tool Steel, AISI M-4 / UNS T1130	1.398	0.58	0.33	0.014	0.058	4.1	0.131	5.16	0.13	3.9	0.129	0.01		0.016	(0.002)

Analyte - Measured Values (continued)

Code	Ca	N	Nb	Pb	Sb	Sn	Ta	Ti	W	Zn	Zr		Size	Form	Type
IARM-44C-X		0.033	0.012	(0.002)	(0.004)	0.010	(0.004)	0.004	6.0	0.006	0.002		Ø 38x3 mm	W	CRM
IARM-45B-G	(0.001)	0.0080	0.002		(0.001)	0.008		0.002	(0.004)		(0.001)		Ø 38x19 mm	W	CRM
IARM-45B-X	(0.001)	0.0080	0.002		(0.001)	0.008		0.002	(0.004)		(0.001)		Ø 38x3 mm	W	CRM
IARM-46B-G		0.0069	0.003	<0.002		0.016		0.007	1.96				Ø 38x19 mm	W	CRM
IARM-47A-X		0.0084	0.004	(<0.005)	0.003	0.031		0.008	0.016		(<0.01)		Ø 38x3 mm		CRM
IARM-47B-G		0.0092	(0.002)	(0.0003)		0.08		0.01	(0.016)				Ø 38x19 mm	W	CRM
IARM-47B-X		0.0092	(0.002)	(0.0003)		0.008		0.01	(0.016)				Ø 38x3 mm	W	CRM
IARM-48C-G		0.0165	(0.005)	(0.0004)	(0.002)	0.012	(0.01)	(0.006)	17.5		(0.003)		Ø 38x19 mm	W	CRM
IARM-48C-X		0.0165	0.005	(0.0004)	(0.002)	0.012	(0.01)	0.006	17.5		(0.003)		Ø 38x3 mm	W	CRM
IARM-164A-G		0.0003	0.006	(0.004)		0.002		0.002	1.44				Ø 38x19 mm	W	CRM
IARM-164A-X		0.0003	0.006	(0.004)		0.002		0.002	1.44				Ø 38x3 mm	W	CRM
IARM-180A-G		0.0096	(0.005)	(0.002)		0.002		0.002	1.48				Ø 38x19 mm	W	CRM
IARM-180A-X		0.0096	(0.005)	(0.002)		0.002		0.002	1.48				Ø 38x3 mm	W	CRM
IARM-251A-G	(0.0005)	0.044	0.016	(0.002)		0.011		0.003	5.5		(0.002)		Ø 38x19 mm	W	CRM

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ARMI - Tool Steel

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Mg	As	B
IARM-251A-X	Tool Steel, AISI M-4 / UNS T11304	1.398	0.58	0.33	0.014	0.058	4.1	0.131	5.16	0.13	3.9	0.129	0.01		0.016	(0.002)
IARM-255A-G	Tool Steel, AISI H-11 / UNS T20811	0.403	0.93	0.27	0.013	0.0012	4.84	0.083	1.33	0.049	0.43	0.009	0.01		(0.002)	0.0004
IARM-255A-X	Tool Steel, AISI H-11 / UNS T20811	0.403	0.93	0.27	0.013	0.0012	4.84	0.083	1.33	0.049	0.43	0.009	0.01		(0.002)	0.0004
IARM-259A-G	Tool Steel, AISI S-7 / UNS T41907	0.479	0.44	0.399	0.02	0.0007	3.27	0.194	1.43	0.081	0.256	0.011	0.016		0.006	0.0003
IARM-259A-X	Tool Steel, AISI S-7 / UNS T41907	0.479	0.44	0.399	0.020	0.0007	3.27	0.194	1.43	0.081	0.256	0.011	0.016		0.006	0.0003
IARM-281A-G	Tool Steel, AISI T-4 / UNS T12004	0.74	0.29	0.3	0.015	0.019	3.89	0.15	0.49	0.096	0.9	4.8	0.007	0.003	0.02	0.003
IARM-281A-X	Tool Steel, AISI T-4 / UNS T12004	0.74	0.29	0.3	0.015	0.019	3.89	0.15	0.49	0.096	0.9	4.8	0.007	0.003	0.02	0.003
IARM-304A-G	Tool Steel, AISI M-1 / UNS T11301	0.857	0.36	0.260	0.019	0.0016	3.55	0.133	8.04	0.14	1.23	0.278	0.009		(0.01)	0.002
IARM-304A-X	Tool Steel, AISI M-1 / UNS T11301	(0.002)	0.36	0.260	0.019	0.0016	3.55	0.133	8.04	0.14	1.23	0.278	0.009		(0.01)	0.002
IARM-306B-G	Tool Steel, AISI M-50 / UNS T11350	0.837	0.213	0.24	0.0061	0.0011	4.12	0.095	4.23	0.058	0.98	0.01	0.082	(<0.002)	0.004	0.0007
IARM-306B-X	Tool Steel, AISI M-50 / T11350, Ø38x3mm	0.837	0.213	0.24	0.0061	0.0011	4.12	0.095	4.23	0.058	0.98	0.01	0.082	(<0.002)	0.004	0.0007
IARM-320A-G	Tool Steel, AISI M-35 / UNS T11335	0.093	0.36	0.33	0.021	0.0015	4.22	0.204	4.79	0.091	1.76	4.9	0.023	(<0.003)	0.013	0.0011
IARM-320A-X	Tool Steel, AISI M-35 / UNS T11335	0.093	0.36	0.33	0.021	0.0015	4.22	0.204	4.79	0.091	1.76	4.9	0.023	(<0.003)	0.013	0.0011
IARM-341A-G	Low-Alloy Steel, HP9-4-30 / UNS K91283	0.298	0.1	0.226	0.0038	0.0008	0.99	7.16	1.01	0.143	0.086	4.4	0.032		(0.003)	0.0005
IARM-341A-X	Low-Alloy Steel, HP9-4-30 / UNS K91283	0.298	0.1	0.226	0.0038	0.0008	0.99	7.16	1.01	0.143	0.086	4.44	0.032		0.003	0.0005

Analyte - Measured Values (continued)

Code	Bi	Ca	N	Nb	Pb	Sb	Se	Sn	Ta	Ti	W	Zn	Zr	Size	Form	Type
IARM-251A-X		(0.0005)	0.044	0.016	(0.002)			0.011		0.003	5.5		(0.002)	Ø 38x3 mm	W	CRM
IARM-255A-G		(0.0004)	0.0067	0.004	<0.001			0.006		0.002	0.007		<0.005	Ø 38x19 mm	W	CRM
IARM-255A-X		(0.0004)	0.0067	0.004	<0.001			0.006		0.002	0.007		<0.005	Ø 38x3 mm	W	CRM
IARM-259A-G			0.0077	0.003	<0.0005			0.004		0.0026	0.035		0.001	Ø 38x19 mm	W	CRM
IARM-259A-X			0.0077	0.003	0.0005			0.004		0.0026	0.035		0.001	Ø 38x3 mm	W	CRM
IARM-281A-G			0.0064	0.094				0.02		0.004	17.6		0.002	Ø 38x19 mm		CRM
IARM-281A-X			0.0064	0.094				0.02		0.004	17.6		0.002	Ø 38x3 mm		CRM
IARM-304A-G			0.034	0.021		(0.001)		0.006		0.002	1.65		(0.002)	Ø 38x19 mm	W	CRM
IARM-304A-X			0.034	0.021		(0.001)		0.006		0.002	1.65		(0.002)	Ø 38x3 mm	W	CRM
IARM-306B-G	(<0.0001)	(0.001)	0.005	0.005	(0.0008)	(0.002)	(<0.002)	0.0042	(<0.011)	0.0016	0.009	(<0.055)	0.0014	Ø 38x19 mm	W	CRM
IARM-306B-X	(<0.0001)	(0.001)	0.005	0.005	(0.0008)	(0.002)	(<0.002)	0.0042	(<0.011)	0.0016	0.009	(<0.055)	0.0014	Ø 38x3 mm	W	CRM
IARM-320A-G	(<0.0001)	(<0.003)	0.014	0.015	(<0.007)	(<0.0011)	(<0.0001)	0.008	(<0.0020)	0.0032	6.01	(<0.001)	(0.003)	Ø 38x19 mm	W	CRM
IARM-320A-X	(<0.0001)	(<0.003)	0.014	0.015	(<0.007)	(<0.0011)	(<0.0001)	0.008	(<0.0020)	0.0032	6.01	(<0.001)	(0.003)	Ø 38x3 mm	W	CRM
IARM-341A-G		0.0011	0.0025	(0.005)	(0.001)	(0.001)		(0.005)		0.003	(0.01)	0.0002	(0.003)	Ø 38x19 mm	W	CRM
IARM-341A-X		0.0011	0.0025	0.005	(0.001)	(0.001)		0.005		0.003	(0.01)	(0.0002)	(0.003)	Ø 38x3 mm	W	CRM

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ECRM - Tool Steel

		Analyte - Measured Value										
Code	**Description**	**C**	**Si**	**Mn**	**P**	**S**	**Cr**	**Ni**	**Mo**	**Cu**	**V**	**Co**
ECRM-D 179-2-D	Tool steel 60 WCrV 7, No. 1.2550 - disc	0.598	0.579	0.539	0.027	0.0006	1.081	0.078	0.07	0.111	0.188	0.0153
ECRM-D 271-1-D	High-alloyed steel (toolsteel 1.2344) - disc	0.3698	0.923	0.437	0.012	0.00045	5.002	0.1552	1.247	0.1371	0.85	0.0139
ECRM-S 274-1-D	Vanadium steel - disc	1.563	1.057	0.397	0.0148	0.0096	8.036	0.077	1.4551	0.0281	4.01	0.023
ECRM-B 276-2-D	5% Cr-Mo-V steel - disc	0.399	1.034	0.365	0.0093	0.0189	4.975	0.203	1.134	0.183	0.296	
ECRM-D 288-1-D	Steel with 2% C and 12% Cr, no. 1.2436 - disc	2.08	0.26	0.292	0.024	(0.0012)	12	0.298	0.103	0.06	0.055	0.018
ECRM-D 290-1-D	High-speed steel, 4% chromium, 5% cobalt und 5% molybdenum, no. 1.3243 - disc	0.91	0.072	0.24	0.016	0.016	4.18	0.33	4.81	0.081	1.92	5.12

	Analyte - Measured Value (continued)											
Code	**Al**	**As**	**B**	**Ca**	**N**	**Sb**	**Sn**	**Ti**	**W**		**Size**	**Type**
ECRM-D 179-2-D					0.0068			0.0014	1.87		Ø 35-39 x 20-35 mm	CRM
ECRM-D 271-1-D	0.0234	0.0057		0.0009	0.0137		0.0084	0.002	0.0054		Ø 37x25 mm	CRM
ECRM-S 274-1-D	0.0025	0.0013	0.0005		0.0769	0.0002	0.001	0.0011	0.0087		Ø 38x25 mm	CRM
ECRM-B 276-2-D					0.0116		0.0133				Ø 38x30 mm	CRM
ECRM-D 288-1-D	0.012	(0.0065)			0.0151	(0.0014)	(0.0043)		(0.6823)		Ø 35-39 x 20-35 mm	CRM
ECRM-D 290-1-D					0.0325				6.24		Ø 35-39 x 20-35 mm	CRM

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BS - Tool Steel

		Analyte - Measured Values																
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Mg	As	B	Ca	Fe
BS-10V	Steel - Tool - 9.5% V	2.46	0.89	0.52	0.019	0.079	5.41	0.08	1.3	0.076	9.5	0.009	(<0.002)					
BS-30D	T-1 Tool Steel	0.745	0.301	0.348	0.029	0.001	3.93	0.191	0.342	0.116	1.077	0.101	0.0123	0.001	0.0128	(0.0002)	0.0004	75.0
BS-32D	Steel - Tool - M-2	0.85	0.25	0.3	0.027	0.0022	4.14	0.053	4.92	0.039	1.82	0.01	0.018					
BS-33D	Steel - Tool - S-1, S-2	0.515	0.312	0.31	0.016	0.02	(<0.0001)	0.059	0.05	0.04	0.22	0.045	0.008					
BS-33E	Steel - Tool - S-1, S-2	0.49	0.2	0.29	0.022	0.005	1.25	0.08	0.045	0.038	0.19	0.006						
BS-35D	Steel - Tool - O-1	0.879	0.22	1.13	0.021	0.024	0.495	0.132	0.035	0.141	1.181	0.012	(0.005)					
BS-36D	Steel - Tool - A-2	0.97	0.27	0.68	0.021	0.007	5.25	0.089	0.96	0.06	0.29	0.01	0.01		0.002			
BS-37G	Steel - Tool - D-2	1.663	0.352	0.326	0.021	0.0007	11.77	0.152	0.78	0.044	0.70	0.0166	0.0060		0.0026	0.0003	0.0014	
BS-38C	Steel - Tool - S-5	0.6	2.08	0.81	0.011	0.012	0.28	0.24	0.41	0.26	0.214	0.036	0.015		0.011			
BS-39B	Steel - Tool	0.67	0.214	0.62	0.009	0.019	0.79	1.45	0.17	0.163	(0.01)	(0.02)	(0.011)					
BS-40B	TOOL STEEL, A-6	0.71	0.35	2.28	0.02	0.006	1.18	0.089	1.07	0.076	0.1	0.02	0.002		0.004	0.0006		
BS-41	Steel - Tool - O-6	1.41	1.02	0.89	0.013	0.011	0.22	0.15	0.23	0.038	0.046		(0.007)					

	Analyte - Measured Values (continued)											
Code	N	Nb	Pb	Sb	Sn	Ta	Ti	W	Zr		Size	Type
BS-10V	0.064							0.013			Ø 38-41x12 mm	RM
BS-30D	0.0168	0.0071	(0.0002)	0.0032	0.0246	(0.02)	0.0189	17.73	(0.0001)		Ø 38x19 mm	CRM
BS-32D	0.018							6.15			Ø 38-41x12 mm	RM
BS-33D					0.005			2.65			Ø 41x12 mm	RM
BS-33E							(0.002)	2.75			Ø 38-41x12 mm	RM
BS-35D		(0.001)			0.006		(0.003)	0.46			Ø 38-41x12 mm	RM
BS-36D	0.0108				0.016			0.028			Ø 38-41x12 mm	RM
BS-37G	0.0310	0.0026	0.0005	0.0009	0.0010		0.025	0.034			Ø 34x19 mm	CRM
BS-38C	0.0081	(0.002)	0.022		0.022		0.007	0.004			Ø 38-41x12 mm	RM
BS-39B					(0.011)						Ø 38-41x12 mm	RM
BS-40B	0.0076				0.005		0.002	0.11			Ø 38-41x12 mm	RM
BS-41					(0.008)			0.035			Ø 38-41x12 mm	RM

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BS - Tool Steel

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Mg	As	B
BS-41A	Steel - Tool - O-6	1.5	0.97	0.93	0.004	0.001	0.2	0.17	0.19	0.034	0.003	0.006	(0.01)		0.002	
BS-49	Steel - Tool - H-10	0.36	0.92	0.33	0.014	0.015	3.51	0.2	2.41	0.072	0.62	2	0.004			
BS-A10	Tool Steel - Toolsteel	1.41	1.15	1.75	0.016	0.022	0.24	1.82	1.53	0.016	0.004	0.01	0.006			
BS-A-11	Tool Steel A11, T30111	2.4	0.98	0.50	0.026	0.12	5.3	0.41	1.3	0.088	9.3	0.004	0.006	<0.0005	0.006	0.001
BS-D-6	Tool Steel	0.472	0.228	0.78	0.007	0.0008	0.99	0.602	1.01	0.13	0.122	0.012	0.037	0.0002	0.011	(0.0003)
BS-H-13	H-13 tool steel	0.402	0.99	0.386	0.0103	0.0202	5.14	0.109	1.24	0.197	0.98	0.0092	0.0152	0.0002	0.0066	(0.0002)
BS-H-19	Steel - Tool	0.404	0.29	0.318	0.014	0.011	4.27	0.114	0.356	0.055	2.05	4.17	<0.001		0.0056	
BS-M-47	Steel - Tool	1.14	0.464	0.2	0.02	0.002	3.72	0.17	9.24	0.08	1.23	4.99	(0.002)		0.006	
BS-M-50	Tool Steel M-50 VIM/VAR, T11350	0.83	0.2	0.25	0.006	<0.05	4.2	0.075	4.3	0.066	0.96	0.02	0.070	<0.005	0.002	<0.005
BS-PM15	C/Cr/Mo/V Tool Steel	3.54	0.912	0.416	0.0198	0.0127	5.33	0.203	1.22	0.142	14.79	0.0330	0.0025	0.0002	0.0040	(0.0002)
BS-TS15	Tool Steel T15	1.6	0.35	0.25	0.021	0.058	3.8	0.23	0.47	0.06	4.9	4.7	0.003	<0.005	<0.05	0.0002
BS-9-4-30	6526 Tool Steel	0.316	0.06	0.22	0.008	<0.002	1	7.25	1.01	0.088	0.09	4.46	0.004			

Analyte - Measured Values (continued)

Code	Ca	Fe	N	Nb	Pb	Sb	Sn	Ta	Ti	W	Zr		Size	Type
BS-41A	0.0006		0.0077				0.002		0.004	<0.003			Ø 38-41x12 mm	RM
BS-49			0.0186				(0.004)		0.003	0.31			Ø 38-41x12 mm	RM
BS-A10										<0.005			Ø 38-41x12 mm	RM
BS-A-11	<0.0005	79.6	0.11	0.011			0.005			0.06	0.001		Ø 38-41x12 mm	CRM
BS-D-6	0.0011		0.0031	(0.002)	(0.0003)	0.0012	0.0104		0.0025	0.0018			Ø 38x19 mm	CRM
BS-H-13	(0.0003)	(90.4)	0.0108	(0.0004)	(0.0003)	0.0020	0.0093	(0.003)	(0.0019)	0.0022	(0.0014)		Ø 38x19 mm	CRM
BS-H-19			0.019	0.008			0.0056		(0.002)	4.02			Ø 38x12 mm	CRM
BS-M-47	(0.002)		0.0219	(0.004)			0.006		(0.004)	1.36			Ø 38x12 mm	CRM
BS-M-50	<0.005	89.0	0.006	<0.05	<0.005		0.005		0.002	<0.05	<0.005		Ø 38x12 mm	CRM
BS-PM15	(0.0001)	73.0	0.111	0.014	(0.00001)	(0.0010)	0.0034	(0.0003)	0.0029	0.109	(0.0005)		Ø 38x19 mm	CRM
BS-TS15	<0.005	72.6	0.044	0.008			0.007		0.002	11.4	0.006		Ø 38x19 mm	CRM
BS-9-4-30			0.0014										Ø 38-41x12 mm	RM

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MBH - Tool Steel

		Analyte - Measured Values																	
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	N	Sn	W	Size	Form	Type
MBH-14X 14946 D	High Speed Steel	0.85	0.46	0.53	0.051	0.048	5.06	1.06	0.21	0.25	1.03	0.44				16.97	Ø 40x15 mm	C	RM
MBH-14X 72305 A	Tool steel, W-5	1.085	0.206	0.349	0.0128	0.0028	0.425	0.089	0.0231	0.149	0.0045		0.0049	0.0068	0.0101		Ø 40x15 mm	W	CRM
MBH-14X HS1 C	High Speed Steel	0.718	0.22	0.29	0.018	0.020	4.00	0.27	0.37	0.069	1.05	0.25		0.023	0.035	17.0	Ø 40x15 mm	W	CRM
MBH-14X HS10 A	Tool Steel	1.710	0.66	0.134	0.0135	0.0099	14..83	0.148	1.679	0.0605	1.142	0.0866		0.001		1.75	Ø 48x13 mm	HIP	CRM
MBH-14X HS11 A	Tool Steel	1.739	0.794	0.237	0.0133	0.0107	19.34	0.188	1.52	0.0582	1.032	0.074		0.002		2.24	Ø 48x13 mm	HIP	CRM

BAS - Tool Steel

		Analyte - Measured Values															
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	V	Co	Al	As	Sn	W	Size	Type
BAS-SS-CRM 482/1	High Speed Tool Steel	0.675	0.14	0.26	0.027	0.027	3.95	(0.16)	0.40	1.04	0.29				17.83	Ø 38x19 mm	CRM
BAS-SS-CRM 483/1	High Speed Tool Steel	0.650	0.16	0.22	0.023	0.023	2.90	(0.08)	0.18	0.22	2.06				9.28	Ø 38x19 mm	CRM
BAS-SS-CRMS 485/1	High Speed Tool Steel	0.94	0.3	0.41	0.043	0.039	4.02	(0.14)	0.66	1.02	4.97	(0.006)	(0.022)	0.019	17.74	Ø 38x19 mm	CRM
BAS-SS-CRMS 486/1	High Speed Tool Steel	0.74	0.27	0.21	0.029	0.021	4.54	(0.06)	5.20	1.82	0.08	(0.005)	(0.016)	0.014	5.80	Ø 38x19 mm	CRM
BAS-SS-CRMS 487/1	High Speed Tool Steel	1.02	0.18	0.26	0.022	0.029	3.91	(0.14)	9.41	1.14	7.95	0.006	(0.012)	(0.006)	1.80	Ø 38x19 mm	CRM

BAS - Tool Steel (Set)

		Analyte - Measured Values										
Code	Description	C	Si	Mn	P	S	Mo	V	W		Size	Type
BAS-SS-CRM 421	Low Tungsten Steel	(0.049)	(0.07)	(0.11)	(0.012)	(0.027)	(0.028)	(<0.02)	0.52		Ø 38x19 mm	CRM
BAS-SS-CRM 422	Low Tungsten Steel	(0.036)	(0.06)	(0.09)	(0.015)	(0.025)	(0.033)	(<0.02)	1.28		Ø 38x19 mm	CRM
BAS-SS-CRM 423	Low Tungsten Steel	(0.03)	(0.05)	(0.07)	(0.017)	(0.027)	(0.027)	(<0.02)	2.06		Ø 38x19 mm	CRM
BAS-SS-CRM 424	Low Tungsten Steel	(0.024)	(0.05)	(0.09)	(0.02)	(0.024)	(0.036)	(<0.02)	3.02		Ø 38x19 mm	CRM

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IMZ - Tool Steel

		Analyte - Measured Values														
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	As	B	N
IMZ-157	High Alloy Steel	0.095	0.59	0.63	0.015	0.01	9.51	0.5	0.71	0.066	0.26		0.26			0.051
IMZ-170	IMZ-70 ! High Alloy Steel	0.155	0.32	0.5	0.018	0.014	8.82	0.63	0.88	0.285	0.24	(0.022)	0.11			0.065
IMZ-172	Tool Steel	1.03	0.21	0.71	0.018	0.047	4.47	0.12	0.96	0.128	0.2	0.012	0.062			0.0192
IMZ-175	Tool Steel	0.099	0.22	0.25	0.016	0.004	0.515	3.12	0.025	0.13	0.014	(0.013)	0.043			0.0099
IMZ-177	Tool Steel	0.076	0.24	0.32	0.013	0.003	0.18	8.33	0.022	0.11	0.01	(0.017)	0.043			0.0089
IMZ-178	Tool Steel	0.29	0.28	0.65	0.016	0.003	1.26	2.09	0.2	0.14	0.011	0.015	0.051			0.016
IMZ-179	Tool Steel	0.114	0.375	0.83	0.016	0.003	0.2	9.98	0.12	0.164	0.023	0.016	0.061	(0.007)		0.0108
IMZ-196	High Alloy Steel	0.179	0.46	0.42	0.018	0.012	11.04	0.44	0.65	0.08	0.34	1.55	0.029		0.065	0.058
IMZ-197	High Aluminium Steel	0.13	0.47	0.45	0.021	0.007	0.2	0.053	(0.011)	0.11	0.025		8.45		(0.007)	

	Analyte - Measured Values (continued)							
Code	Nb	Sb	Sn	Ti	W		Size	Type
IMZ-157				0.044			Ø 40x40 mm	CRM
IMZ-170	0.087	(0.002)	0.007	(0.002)	(0.19)		Ø 40x40 mm	CRM
IMZ-172			0.01	(0.002)	0.011		Ø 40x40 mm	CRM
IMZ-175			0.011		(0.019)		Ø 40x40 mm	CRM
IMZ-177			0.008				Ø 40x40 mm	CRM
IMZ-178	0.105		0.011		0.017		Ø 40x40 mm	CRM
IMZ-179	(0.004)		0.01		(0.023)		Ø 40x40 mm	CRM
IMZ-196	0.073				1.54		Ø 37x30 mm	CRM
IMZ-197	(0.011)		0.015	0.025			Ø 37x30 mm	CRM

SPL - Tool Steel

		Analyte - Measured Values																
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	As	B	N	Pb	Sn
SPL-CM-10A-25MM	Steel - Tool	0.694	0.817	1	0.04	0.022	5.48	2.38	1.234	0.31	0.908	0.114	0.086	0.03	0.05			0.062
SPL-CM-17A	Alloyed Steel	0.142	0.612	0.524	0.013	0.0175	9.58		1.116	0.0329	0.247		0.0089	0.0105	0.006	743.0	0.0177	0.0106
SPL-HS-1A-25MM	Alloy steel QCM	0.72	0.28	0.28	0.023	0.011	4.15	0.14	0.06	0.08	1.33	4.7	0.03					0.02
SPL-HS-2A-25MM	Alloy steel QCM	1.24	0.24	0.27	0.024	0.017	4.15	0.21	3.75	0.08	3.4	9.9	0.035					0.01

	Analyte - Measured Values (continued)				
Code	Ti	W		Size	Type
SPL-CM-10A-25MM	0.0189	0.96		Ø 35-43x25 mm	RM
SPL-CM-17A	0.0236	0.099		Ø 37x25 mm	RM
SPL-HS-1A-25MM	0.003	17.5		Ø 35-43x25 mm	RM
SPL-HS-2A-25MM	0.003	9.3		Ø 35-43x25 mm	RM

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MQ (DSZU) - Tool Steel

		Analyte - Measured Values															
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Ce	W	Size	Type
MQ-C070	High-speed steel (DSZU 083.45-2014)	2.43	0.79	0.38	0.021	0.054	5.57	0.153	1.28	0.13	9.39	0.053			0.29	Ø 40-42x15-19 mm	CRM
MQ-C071	High-speed steel (DSZU 083.45-2014)	1.06	0.38	0.2	0.02	0.028	3.77	0.149	9.67	0.162	1.07	8.1			1.74	Ø 40-42x15-19 mm	CRM
MQ-C072	High-speed steel (DSZU 083.45-2014)	1.3	0.55	0.29	0.024	0.019	4.25	0.192	5.39	0.106	3.59	0.011			6.33	Ø 40-42x15-19 mm	CRM
MQ-C073	High-speed steel (DSZU 083.45-2014)	1.32	0.27	0.23	0.019	0.013	3.97	0.198	4.97	0.112	2.82	8.31			6.4	Ø 40-42x15-19 mm	CRM
MQ-C074	High-speed steel (DSZU 083.45-2014)	1.1	0.16	0.16		0.023	0.02	3.93	0.158	5.21	0.141		1.94	5.08	6.47	Ø 40-42x15-19 mm	CRM
MQ-C075	High-speed steel (DSZU 083.45-2014)	1.16	0.47	0.16	0.021	0.015	3.1	0.202	4.06	0.12	2.1	8.03			9.27	Ø 40-42x15-19 mm	CRM
MQ-C076	High-speed steel (DSZU 083.45-2014)	0.69	0.58	0.18	0.024	0.022	5.75	0.213	4.29	0.12	2.03	13.88			9.81	Ø 40-42x15-19 mm	CRM
MQ-C077	High-speed steel (DSZU 083.45-2014)	1.16	0.4	0.19	0.03	0.024	4.07	0.271	3.05	0.142	2.04	7.73			12.17	Ø 40-42x15-19 mm	CRM
MQ-C078	High-speed steel (DSZU 083.45-2014)	0.67	0.117		0.22	0.022	0.019	3.98	0.121	0.14		0.116	1.04	0.022	18.3	Ø 40-42x15-19 mm	CRM
MQ-C079	Tool powdered steel (DSZU 083.45-2014)	0.59	0.43	0.38	0.024	0.012	4	0.541	4.1	0.154	0.9	0.04			0.06	Ø 35-40x25 mm	CRM
MQ-C080	Tool powdered steel (DSZU 083.45-2014)	1.68	1.89	0.31	0.025	0.02	5.06	0.162	0.39	0.12	5.12	0.03			3.4	Ø 35-40x25 mm	CRM
MQ-C081	Tool powdered steel (DSZU 083.45-2014)	1.01	1.1	0.32	0.017	0.011	7.78	0.207	2.13	0.124	0.25	0.03			0.05	Ø 35-40x25 mm	CRM
MQ-C082	Tool powdered steel (DSZU 083.45-2014)	2.32	0.36	0.33	0.029	0.014	12.24	0.239		1.11	0.118	4.02	0.04		0.17	Ø 35-40x25 mm	CRM

NCS - Tool Steel

		Analyte - Measured Values													
Code	Description	C	Si	Mn	P	S	Cr	Mo	Al	Al(s)	N	Ti		Size	Type
NCS HS20741	Stainless Steel, 1Cr13Mo	0.125	0.431	0.957	0.017	0.0045	12.91	0.41						Ø 35x40 mm	CRM
NCS HS20742	Stainless Steel, 1Cr17	0.083	0.636	1.02	0.015	0.0035	16.58							Ø 35x40 mm	CRM
NCS HS20743	Stainless Steel 0Cr11Ti	0.015	0.97	0.949	0.038	0.0055	11.88		0.022	0.021	0.0155	0.411		Ø 35x40 mm	CRM

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CPT - Tool Steel

		Analyte - Measured Values																
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Pb	Sn	W	Size	Type
CPT-A2	HighSpeed Steel / Toolsteel	0.95	0.4	0.72	0.01	0.004	5.13	0.1	1.05	0.06	0.22						Ø 35x20 mm	RM
CPT-D2	HighSpeed Steel / Toolsteel	1.53	0.4	0.48	0.013	0.005	11.46	0.1	0.75	0.04	0.89	0.02				<0.01	Ø 35x20 mm	RM
CPT-H13	HighSpeed Steel / Toolsteel	0.39	1.05	0.3	0.015	0.005	5.23	0.1	1.36	0.061	1.02						Ø 38x19 mm	RM
CPT-M1	HighSpeed Steel / Toolsteel	0.8	0.22	0.3	0.012	0.005	3.91	0.12	8.22	0.087	1.05					1.58	Ø 35x20 mm	RM
CPT-M2	HighSpeed Steel / Toolsteel	0.82	0.27	0.33	0.012	0.004	4.03	0.25	4.96	0.06	1.81	0.05				6.47	Ø 35x20 mm	RM
CPT-M7	HighSpeed Steel / Toolsteel	1	0.34	0.29	0.012	0.003	3.6	0.1	8.49	0.066	2.02	0.015				1.78	Ø 35x20 mm	RM
CPT-M10	HighSpeed Steel / Toolsteel	0.88	0.3	0.27	0.016	0.004	3.97	0.14	7.89	0.061	1.99	0.012				0.008	Ø 35x20 mm	RM
CPT-O1	HighSpeed Steel / Toolsteel	0.91	0.36	1.27	0.009	0.004	0.49	0.06	0.07	0.05	0.25					0.51	Ø 35x20 mm	RM
CPT-X27081	HighSpeed Steel / Toolsteel	1.32	0.24	0.2	0.004	0.001	0.052	0.031	0.008	0.026						3.39	Ø 32x16 mm	RM
CPT-X35568	HighSpeed Steel / Toolsteel	1.36	0.19	0.14	0.006	0.002	0.076	0.054	0.017	0.1						3.2	Ø 32x16 mm	RM
CPT-X60937	Steel, low alloyed	0.72	0.34	2.12	0.015	0.075	1.02	0.088	1.34	0.048	0.034		0.002			0.32	Ø 35x20 mm	RM
CPT-X62730	Steel, low alloyed	0.7	0.38	2.16	0.009	0.077	1	0.085	1.32	0.056	0.02		0.01				Ø 35x20 mm	RM
CPT-X67975	Steel, low alloyed	0.48	0.28	0.56	0.009	0.005	1	0.13	0.53	0.06	0.3			<0.001	0.003		Ø 35x20 mm	RM

Miscellaneous - Tool Steel

		Analyte - Measured Values														
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	N	W	Size	Type
NIST-1157	Specialty steel, tool (AISI M2)	0.836	0.18	0.34	0.011	0.004	4.36	0.228	4.86	0.088	1.82	0.028		6.28	Ø 32x19 mm	CRM
JK 49D	Steel, high alloyed N=1.89%	1	0.5	0.4	0.02	0.01	5	0.2	3	0.1	9	0.3	1.89	4	Ø 47x15 mm	CRM
CENIM-220	HighSpeedSteel / ToolSteel	0.3	0.3	0.3	0.01	0.01	2.7	0.1	0.02	0.1	0.2	0.05		10.5	Ø 40x25 mm	RM

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ARMI Ferritic Martensitic Steel

		Analyte - Measured Values													
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Ce	Mg
IARM-9D-X	Stainless Steel, AISI 410 / UNS S41000	0.143	0.38	0.57	0.033	0.028	12.51	0.2	0.038	0.11	0.022	0.0213	0.003		
IARM-10D-G	Stainless Steel, AISI 416 / UNS S41600	0.11	0.475	1.11	0.0178	0.334	12.42	0.291	0.148	0.192	0.051	0.0187	0.0027		(<0.09)
IARM-10D-X	Stainless Steel, AISI 416 / UNS S41600	0.11	0.475	1.11	0.0178	0.334	12.42	0.291	0.148	0.192	0.051	0.0187	0.0027		(<0.09)
IARM-11D-G	Stainless Steel, AISI 430 / UNS S43000	0.07	0.83	0.4	0.023	0.004	17.35	0.6	0.075	0.085	0.052	0.024	0.015		0.0003
IARM-11D-X	Stainless Steel, AISI 430 / UNS S43000	0.07	0.83	0.4	0.023	0.004	17.35	0.6	0.075	0.085	0.052	0.024	0.015		0.0003
IARM-12B-X	Stainless Steel, AISI 431 / UNS S43100	0.174	0.56	0.6	0.016	0.003	16.02	2.15	0.057	0.143	0.037	0.018	0.003		
IARM-12C-G	Stainless Steel, AISI 431 / UNS S43100	(0.155)	(0.34)	(0.55)	(0.022)	(0.0032)	(15.78)	(2.23)	(0.125)	(0.33)	(0.04)	(0.048)	(0.004)		(0.0002)
IARM-12C-X	Stainless Steel, AISI 431 / UNS S43100	(0.155)	(0.34)	(0.55)	(0.022)	(0.0032)	(15.78)	(2.23)	(0.125)	(0.33)	(0.04)	(0.048)	(0.004)		(0.0002)
IARM-13D-G	Stainless Steel, AISI 440C / UNS S44004	1.04	0.614	0.697	0.0195	0.0012	16.36	0.256	0.488	0.184	0.058	0.0212	0.006		
IARM-13D-X	Stainless Steel, AISI 440C / UNS S44004	1.04	0.614	0.697	0.0195	0.0012	16.36	0.256	0.488	0.184	0.058	0.0212	0.006		
IARM-14C-G	Stainless Steel, AISI 446 / UNS S44600	0.061	0.63	0.385	0.021	0.0015	24.9	0.364	0.101	0.19	0.078	0.043	0.0041		
IARM-14C-X	Stainless Steel, AISI 446 / UNS S44600	0.061	0.63	0.385	0.021	0.0015	24.9	0.364	0.101	0.19	0.078	0.043	0.0041		
IARM-15B-G	Stainless Steel, Custom 450 / UNS S45000	0.047	0.33	0.39	0.013	0.001	14.53	6.94	0.82	1.53	0.033	0.24	0.006		
IARM-15B-X	Stainless Steel, Custom 450 / UNS S45000	0.047	0.33	0.39	0.013	0.001	14.53	6.94	0.82	1.53	0.033	0.24	0.006		
IARM-15C-G	Stainless & High Temperature Steel, Custom 450 / S45000	0.032	0.26	0.76	0.019	0.0018	14.39	6.35	0.722	1.54	0.041	0.024	0.005	(<0.01)	(<0.005)

	Analyte - Measured Values																
Code	As	B	Ca	N	Nb	Pb	Sb	Se	Sn	Ta	Ti	W	Zn	Zr	Size	Form	Type
IARM-9D-X	0.003	0.0005		0.0225	0.0023				0.006	0.004	0.0016	0.004			Ø 38x3 mm	W	CRM
IARM-10D-G	0.007	0.002	(0.0011)	0.0241	0.0027	(0.0003)	(0.0022)	(<0.02)	0.01		0.0015	0.005	(0.006)	(<0.005)	Ø 38x19 mm		CRM
IARM-10D-X	0.007	0.002	(0.0011)	0.0241	0.0027	(0.0003)	(0.0022)	(<0.02)	0.01		0.0015	0.005	(0.006)	(<0.005)	Ø 38x3 mm		CRM
IARM-11D-G	0.005	0.0006	0.002	0.021	0.009	0.0005		0.001	0.006	0.003	0.003	0.008	0.004	0.001	Ø 38x19 mm	W	CRM
IARM-11D-X	0.005	0.0006	0.002	0.021	0.009	0.0005		0.001	0.006	0.003	0.003	0.008	0.004	0.001	Ø 38x3 mm	W	CRM
IARM-12B-X		0.0003		0.061	0.011	(<0.0005)			0.006		0.003	0.014		0.002	Ø 38x3 mm		CRM
IARM-12C-G	(0.004)	(0.0004)	(0.0007)	(0.056)	(0.02)	(0.0005)			(0.008)	(0.0005)	(0.002)	(0.015)		(0.001)	Ø 38x19 mm	W	CRM
IARM-12C-X	(0.004)	(0.0004)	(0.0007)	(0.056)	(0.02)	(0.0005)			(0.008)	(0.0005)	(0.002)	(0.015)		(0.001)	Ø 38x3 mm	W	CRM
IARM-13D-G	0.008	0.0005	(0.0007)	0.0492	0.0074	(<0.009)	0.0027	(<0.02)	0.011	0.004	0.0035	0.046	(<0.02)	0.0017	Ø 38x19 mm	W	CRM
IARM-13D-X	0.008	0.0005	(0.0007)	0.0492	0.0074	(<0.009)	0.0027	(<0.02)	0.011	0.004	0.0035	0.046	(<0.02)	0.0017	Ø 38x3 mm	W	CRM
IARM-14C-G	0.003	0.0005		0.058	0.013				0.004	(0.002)	0.013	0.031		(0.001)	Ø 38x19 mm	W	CRM
IARM-14C-X	0.003	0.0005		0.058	0.013				0.004	(0.002)	0.013	0.031		(0.001)	Ø 38x3 mm	W	CRM
IARM-15B-G				0.0355	0.65				0.009		0.005	0.12			Ø 38x19 mm		CRM
IARM-15B-X				0.0355	0.65				0.009		0.005	0.12			Ø 38x3 mm		CRM
IARM-15C-G	0.0044	0.0006	(0.0004)	0.0148	0.63	(0.003)	(0.003)	(0.0003)	0.009	(0.004)	0.002	0.02	(0.01)	0.003	Ø 38x19 mm		CRM

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ARMI - Ferritic Martensitic Steel

		Analyte - Measured Values													
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Ce	Mg
IARM-15C-X	Stainless & High Temperature Steel, Custom 450 / S45000	0.032	0.26	0.76	0.019	0.0018	14.39	6.35	0.722	1.54	0.041	0.024	0.005	(<0.01)	(<0.005)
IARM-16C-G	Stainless Steel, Custom 455 / UNS S45500	0.003	0.03	0.024	0.007	0.0046	11.34	8.23	0.009	2.08	0.07	0.017	0.072		
IARM-16C-X	Stainless Steel, Custom 455 / UNS S45500	0.003	0.03	0.024	0.007	0.0046	11.34	8.23	0.009	2.08	0.07	0.017	0.072		
IARM-20B-X	Stainless Steel, Greek Ascoloy / UNS S41800	0.18	0.4	0.35	0.019	0.004	12.42	1.94	0.32	0.069	0.17	0.03	0.006		
IARM-20C-G	Stainless Steel, Greek Ascoloy / UNS S41800	0.18	0.35	0.3	0.018	0.007	12.15	1.93	0.12	0.06	0.086	0.031	0.004		
IARM-20C-X	Stainless Steel, Greek Ascoloy / UNS S41800	0.18	0.35	0.3	0.018	0.007	12.15	1.93	0.12	0.06	0.086	0.031	0.004		
IARM-22C-G	Stainless Steel, AISI 15-5PH / USN S15500	0.042	0.39	0.63	0.027	0.0004	14.28	4.63	0.48	3.24	0.068	0.086	0.006		
IARM-22C-X	Stainless Steel, AISI 15-5PH / USN S15500	0.042	0.39	0.63	0.027	0.0004	14.28	4.63	0.48	3.24	0.068	0.086	0.006		
IARM-23D-G	Stainless Steel, 17-4 PH / UNS S17400	0.038	0.49	0.52	0.022	0.0006	15.16	4.88	0.159	3.27	0.053	0.041	(0.005)		(0.0004)
IARM-23D-X	Stainless Steel, 17-4 PH / UNS S17400	0.038	0.49	0.52	0.022	0.0006	15.16	4.88	0.159	3.27	0.053	0.041	0.005		(0.0004)
IARM-154C-X	Stainless Steel, AISI 420 / UNS S42000	0.339	0.37	0.423	0.0174	0.0043	12.41	0.215	0.036	0.12	0.043	0.016	0.0034		(<0.001)
IARM-154C-G	Stainless Steel, AISI 420 / UNS S42000	0.339	0.37	0.423	0.0174	0.0043	12.41	0.215	0.036	0.12	0.043	0.016	0.0034		(<0.001)
IARM-205C-X	Stainless Steel, AISI 422 / UNS S42200	0.231	0.39	0.74	0.017	0.0034	12.14	0.68	1.00	0.109	0.21	0.058	0.003		
IARM-205C-X	Stainless Steel, AISI 422 / UNS S42200	0.231	0.39	0.74	0.017	0.0034	12.14	0.68	1.00	0.109	0.21	0.058	0.003		
IARM-205D-G	Stainless Steel, AISI 422 / UNS S42200	0.232	0.257	0.736	0.0209	0.0028	12.18	0.841	1.002	0.122	0.319	0.043	0.0021	(<0.001)	(0.0007)

	Analyte - Measured Values																
Code	As	B	Ca	N	Nb	Pb	Sb	Se	Sn	Ta	Ti	W	Zn	Zr	Size	Form	Type
IARM-15C-X	0.0044	0.0006	(0.0004)	0.0148	0.63	(0.003)	(0.003)	(0.0003)	0.009	(0.004)	0.002	0.02	(0.01)	0.003	Ø 38x3 mm		CRM
IARM-16C-G	(0.003)	0.0011		0.003	0.248				(0.003)		1.16	0.008		0.001	Ø 38x19 mm		CRM
IARM-16C-X	0.003	0.0011		0.003	0.248				0.003		1.16	0.008		0.001	Ø 38x3 mm		CRM
IARM-20B-X				0.0434	0.01				0.005		0.004	3.52			Ø 38x3 mm		CRM
IARM-20C-G				0.0222	0.01				0.004		0.003	2.59			Ø 38x19 mm	W	CRM
IARM-20C-X				0.0222	0.01				0.004		0.003	2.59			Ø 38x3 mm	W	CRM
IARM-22C-G	(0.003)	0.0006		0.03	0.29				0.013	0.004	0.002	0.031		0.002	Ø 38x19 mm		CRM
IARM-22C-X	0.004	0.0006		0.03	0.29				0.013	(0.004)	0.002	0.031		(0.002)	Ø 38x3 mm		CRM
IARM-23D-G	(0.005)	0.0019	0.0013	0.037	0.29	(0.001)			0.006	(0.001)	(0.003)	(0.011)	0.001	0.001	Ø 38x19 mm		CRM
IARM-23D-X	(0.005)	0.0019	0.0013	0.037	0.29	(0.001)			0.0059	0.002	0.003	0.011	(0.001)	(0.001)	Ø 38x3 mm		CRM
IARM-154C-X	(0.004)	0.0007	(<0.001)	0.054	0.014	(<0.01)	(0.001)	(0.0003)	0.0058	(<0.005)	0.0015	0.005	(<0.005)	(0.0014)	Ø 38x3 mm	W	CRM
IARM-154C-G	(0.004)	0.0007	(<0.001)	0.054	0.014	(<0.01)	(0.001)	(0.0003)	0.0058	(<0.005)	0.0015	0.005	(<0.005)	(0.0014)	Ø 38x19 mm	W	CRM
IARM-205C-X	0.004	0.0003	(0.0005)	0.040	0.010				0.004	(0.002)	0.002	1.03	(0.001)	0.002	Ø 38x3 mm		CRM
IARM-205C-X	0.004	0.0003	(0.0005)	0.040	0.010				0.004	(0.002)	0.002	1.03	(0.001)	0.002	Ø 38x3 mm		CRM
IARM-205D-G	0.004	0.0007	(0.002)	0.0484	0.013	0.002	(<0.007)	(<0.005)	0.0047	(<0.005)	0.0022	1.07	(<0.005)	0.0022	Ø 38x19 mm	W	CRM

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ARMI - Ferritic Martensitic Steel

		Analyte - Measured Values													
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Ce	Mg
IARM-291A-G	Stainless Steel, M-152 / UNS S64152	0.11	0.23	0.71	0.016	0.009	11.3	2.62	1.61	0.06	0.29	0.021	(0.004)		
IARM-291A-X	Stainless Steel, M-152 / UNS S64152	0.11	0.23	0.71	0.016	0.009	11.3	2.62	1.61	0.06	0.29	0.021	(0.004)		
IARM-317A-G	Stainless Steel, Alloy 2304 / UNS S32304	0.025	0.39	1.26	0.028	0.0007	22.5	4.19	0.249	0.21	0.061	0.064	0.005		
IARM-317A-X	Stainless Steel, Alloy 2304 / UNS S32304	0.025	0.39	1.26	0.028	0.0007	22.5	4.19	0.249	0.21	0.061	0.064	0.005		
IARM-327A-G	Stainless Steel, Alloy 415 / UNS S41500	0.018	0.43	0.54	0.018	0.001	12.73	3.83	0.53	0.082	0.036	0.019	(0.003)		(0.0003)
IARM-327A-X	Stainless Steel, Alloy 415 / UNS S41500	0.018	0.43	0.54	0.018	0.001	12.73	3.83	0.53	0.082	0.036	0.019	0.003		(0.0003)
IARM-335A-X	Stainless Steel, Alloy AM 355 / UNS S35500	0.138	0.39	0.85	0.016	0.0005	15.3	4.27	2.72	0.086	0.094	0.063	0.019		
IARM-335A-G	Stainless Steel, Alloy AM 355 / UNS S35500	0.138	0.39	0.85	0.016	0.0005	15.3	4.27	2.72	0.086	0.094	0.063	0.019		
IARM-352A-X	Stainless Steel, AISI 420F / UNS S42020	0.341	0.357	1.13	0.0182	0.21	13.11	0.269	0.38	0.148	0.028	0.016	0.0025	(<0.005)	(<0.009)
IARM-352A-G	Stainless Steel, AISI 420F / UNS S42020	0.341	0.357	1.13	0.0182	0.21	13.11	0.269	0.38	0.148	0.028	0.016	0.0025	(<0.005)	(<0.009)
IARM-353A-X	Stainless & High Temperature Steel, AISI 440F Se / 44023	0.98	0.49	0.95	0.019	0.025	17.01	0.265	0.50	0.13	0.116	0.032	0.0018	(<0.005)	(0.004)
IARM-353A-G	Stainless & High Temperature Steel, AISI 440F Se / 44023	0.98	0.49	0.95	0.019	0.025	17.01	0.265	0.50	0.13	0.116	0.032	0.0018	(<0.005)	(0.004)
IARM-354A-G	Stainless & High Temperature Steel, Custom 465 / S46500	0.0076	0.04	0.012	0.0029	0.0019	11.61	11.05	0.95	0.018	0.020	0.022	0.05	(<0.001)	(0.0001)
IARM-354A-X	Stainless & High Temperature Steel, Custom 465 / S46500	0.0076	0.04	0.012	0.0029	0.0019	11.61	11.05	0.95	0.018	0.020	0.022	0.05	(<0.001)	(0.0001)
IARM-355A-G	Stainless & High Temperature Steel, AISI 430FS / S43020	0.0274	0.435	0.47	0.0186	0.31	17.81	0.427	0.337	0.083	0.038	0.047	0.0016	(<0.005)	(0.0008)
IARM-355A-X	Stainless & High Temperature Steel, AISI 430FS / S43020	0.0274	0.435	0.47	0.0186	0.31	17.81	0.427	0.337	0.083	0.038	0.047	0.0016	(<0.005)	(0.0008)

	Analyte-MeasuredValues																
Code	As	B	Ca	N	Nb	Pb	Sb	Se	Sn	Ta	Ti	W	Zn	Zr	Size	Form	Type
IARM-291A-G		0.001		0.035	0.022				0.004	(0.001)	0.0011	(0.01)		<0.005	Ø38x19mm	W	CRM
IARM-291A-X		0.001		0.035	0.022				0.004	(0.001)	0.0011	(0.01)		<0.005	Ø38x3mm	W	CRM
IARM-317A-G	(0.006)	0.0019	(0.0003)	0.123	(0.004)	0.001			0.008	(0.004)	(0.002)	0.015			Ø38x19mm	W	CRM
IARM-317A-X	(0.006)	0.0019	(0.0003)	0.123	0.004	(0.001)			0.008	(0.004)	(0.002)	0.015			Ø38x3mm	W	CRM
IARM-327A-G	(0.004)	(0.001)		0.0157	0.008				0.006	(0.004)	0.0026	0.009		(0.002)	Ø38x19mm	W	CRM
IARM-327A-X	(0.004)	0.001		0.0157	0.008				0.006	(0.004)	0.0026	0.009		(0.002)	Ø38x3mm	W	CRM
IARM-335A-X	(0.01)	0.0007	(0.001)	0.085	0.015				0.0034	(0.01)	(0.002)	0.008		(0.002)	Ø38x3mm	W	CRM
IARM-335A-G	(0.01)	0.0007	(0.0010)	0.085	0.015				0.0034	(0.01)	(0.002)	0.008		(0.002)	Ø38x19mm	W	CRM
IARM-352A-X	0.005	0.0007	(<0.005)	0.029	0.012	(<0.001)	(0.004)	(0.006)	0.0046	(0.0007)	0.0015	0.005	(<0.02)	(<0.003)	Ø38x3mm		CRM
IARM-352A-G	0.005	0.0007	(<0.005)	0.029	0.012	(<0.001)	(0.004)	(0.006)	0.0046	(0.0007)	0.0015	0.005	(<0.02)	(<0.003)	Ø38x19mm		CRM
IARM-353A-X	0.004	0.0006	(0.0003)	0.027	0.011	(0.002)	(0.002)	0.17	0.0056	0.004	0.0015	0.041	(0.005)	0.002	Ø38x3mm		CRM
IARM-353A-G	0.004	0.0006	(0.0003)	0.027	0.011	(0.002)	(0.002)	0.17	0.0056	0.004	0.0015	0.041	(0.005)	0.002	Ø38x19mm		CRM
IARM-354A-G	(0.002)	0.0023	(0.0003)	0.0018	0.02	(0.004)	(0.0002)	(<0.003)	0.002	(<0.004)	1.56	0.02	(<0.005)	(<0.005)	Ø38x19mm		CRM
IARM-354A-X	(0.002)	0.0023	(0.0003)	0.0018	0.02	(0.004)	(0.0002)	(<0.003)	0.002	(<0.004)	1.56	0.02	(<0.005)	(<0.005)	Ø38x3mm		CRM
IARM-355A-G	0.004	0.0011	(<0.005)	0.0439	0.0095	(0.0002)	(<0.004)	(0.0001)	0.005	(0.001)	0.002	0.018	(0.0007)	(0.002)	Ø38x19mm		CRM
IARM-355A-X	0.004	0.0011	(<0.005)	0.0439	0.0095	(0.0002)	(<0.004)	(0.0001)	0.005	(0.001)	0.002	0.018	(0.0007)	(0.002)	Ø38x3mm		CRM

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ECRM - Ferritic Martensitic Steel

		Analyte - Measured Values												
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Mg
ECRM-B 272-1-D	12% Chromium steel - disc	0.2815	0.42	0.6	0.0156	0.0196	11.927	0.2445	0.003	0.0192	0.0167	0.0145	0.0046	0.0002
ECRM-F 273-1-D	Stainless steel Z5CNU15.05 with 14,7 % Cr, 4,8 % Ni and 3 % - disc	0.0336	0.378	0.785	0.0131	0.0004	14.747	4.85	0.2462	3.046	0.0512	0.0391		
ECRM-D 291-1-D	Highly alloyed steel, 17% chromium and 2% molybdenum, 1.4748 - disc	0.9	0.907	0.81	0.017	0.0088	17.15	0.56	2.1	0.071	0.39	0.0233		
ECRM-B 296-1-D	Jethete steel - disc	0.1166	0.242	0.676	0.0178	0.0026	11.82	2.79	1.7	0.1498	0.363	0.0218	0.0275	
ECRM-D 299-1-D	Ferrtic electric heating steel No. 1.4765 - disc	0.0154	0.299	0.2678	0.0152	0.00022	22.32	0.172	0.0186	0.0382	0.0329	0.0187	5.33	

	Analyte - Measured Values													
Code	As	B	Ca	N	Nb	Pb	Sb	Sn	Ti	Zn	Zr		Size	Type
ECRM-B 272-1-D	0.0116	0.0018	0.0009	0.0508	0.0028		0.0007		0.00096	0.0031			Ø 38x30 mm	CRM
ECRM-F 273-1-D	0.003			0.0444	0.221			0.0021					Ø 40x20 mm	CRM
ECRM-D 291-1-D				0.1142									Ø 35-39 x 20-35 mm	CRM
ECRM-B 296-1-D	0.0139	0.0003		0.0214		0.00016		0.0131					Ø 38x30 mm	CRM
ECRM-D 299-1-D	0.0054	0.0002		0.0198					0.1289		0.1775		Ø 40x25 mm	CRM

NIST - Ferritic Martensitic Steel

		Analyte - Measured Values															
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	As	B	Bi	N
NIST-1219	Stainless Steel AISI 431	0.149	0.545	0.42	0.026	0.001	15.64	2.16	0.164	0.162	0.056						0.078
NIST-1223	Chromium steel	0.127	0.327	1.08	0.018	0.329	12.64	0.232	0.053	0.081	0.068						
NIST-1295	Stainless steel, (SAE 405)	0.027	0.321	0.387	0.022	0.0003	13.52	0.194	0.023	0.26	0.082	0.02	(0.20)	(0.006)	(<0.0004)	(<0.0001)	
NIST-C1296	Stainless Steel	0.038	0.66	0.256	0.024	0.013	27.9	0.373	3.43	0.056	0.134	0.026	0.035				
NIST-C2400	HA Steel ACI (17/4 PH)	0.036	0.61	0.71	0.013	0.003	17.06	4.07	0.23	2.63	0.092	0.1					

	Analyte - Measured Values											
Code	Nb	Pb	Sb	Se	Sn	Ta	Te	Ti	W		Size	Type
NIST-1219											Ø 34x19 mm	CRM
NIST-1223											Ø 32x19 mm	CRM
NIST-1295	(<0.0005)	(0.0001)	(0.003)	(<0.0001)	(0.02)	(<0.001)	(<0.0001)	(0.01)	(0.002)		Ø 32x19 mm	CRM
NIST-C1296	0.2							0.23			Ø 32x19 mm	CRM
NIST-C2400	0.15										Ø 32x19 mm	CRM

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BAS - Ferritic Martensitic Steel

		Analyte - Measured Values									
Code	Description	C	Si	Mn	P	S	Cr	Ni	Cu	Size	Type
BAS-SS-CRM 70	Ferritic Stainless Steel	0.18	0.35	0.38	0.024	0.02	16.35	0.4	0.06	Ø 44x13 mm	CRM

BAS - Ferritic Martensitic Steel (Set)

		Analyte - Measured Values												
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Size	Type
BAS-SS-CRM 469	Ferritic Stainless Steel	0.279	0.421	0.598	0.015	0.02	11.93	0.246		(0.02)	(0.02)	(0.01)	Ø 38x19 mm	CRM
BAS-SS-CRM 470	Ferritic Stainless Steel	0.153	0.335	0.235	0.024	0.035	17.68	0.369		(0.02)	(0.02)	(0.02)	Ø 38x19 mm	CRM
BAS-SS-CRM 471	Ferritic Stainless Steel	0.095	0.326	0.417	0.018	0.023	23.85	0.96		(0.02)	(0.03)	(0.02)	Ø 38x19 mm	CRM
BAS-SS-CRM 472	Ferritic Stainless Steel	0.227	1.05	1.02	0.032	0.029	15.82	1.95	0.661	(0.02)	(0.02)	(0.02)	Ø 38x19 mm	CRM
BAS-SS-CRM 473	Ferritic Stainless Steel	0.172	0.604	0.494	0.019	0.03	9.06	(0.06)	0.95	(0.02)	(0.02)	(0.01)	Ø 38x19 mm	CRM

HRT - Ferritic Martensitic Steel

		Analyte - Measured Values													
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	N	W	Size	Type
HR-FE2009 H	Stainless steel	0.035	0.35	0.78	0.034	0.003	12.83	3.89	0.42	0.08	0.043			0.058	Ø 40x40 mm	RM
HR-FE2010 H	High Alloy Steel	0.18	0.39	0.6	0.024	0.004	15.95	1.94	0.13	0.08	0.044	0.023		0.024	Ø 35x20 mm	RM
HR-FE2015 H	High Alloy Steel	0.19	0.37	0.52	0.021	0.002	12.87	0.25	0.07	0.07	0.05		0.045		Ø 35x20 mm	RM

IRSID - Ferritic Martensitic Steel

		Analyte - Measured Values												
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Size	Type
IRSID-1825	Stainless Steel, low Ni	0.305	0.336	0.65	0.019	0.022	12.9	0.308	0.052	0.1	0.052	0.026	Ø 40x30 mm	CRM

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BS - Ferritic Martensitic Steel

		Analyte - Measured Values													
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Mg	As
BS-17-4PHA	Steel - 17-4PH	0.018	0.4	0.85	0.023	0.022	15.4	4.69	0.34	3.3	0.043	0.072			
BS-17-4PHB	Steel - 17-4PH (C = 0.042%)	0.042	0.42	0.56	0.021	0.024	15.6	4.53	0.11	3.35	0.059	0.04			
BS-0021	Low Ni Stainless Steel	0.128	0.354	0.42	0.021	0.008	12	0.1	0.016	0.04	0.029	0.015	0.008		(0.004)
BS-0022	410 Stainless Steel: BS-XDDF revised => BS-0022 as CRM	0.05	0.62	0.41	0.018	0.011	12.36	0.23	0.117	0.036	0.034	0.017	0.078	(<0.0005)	0.003
BS-90F	416 Stainless Steel	0.085	0.58	0.53	0.023	0.328	13.01	0.3	0.14	0.12	0.076	0.021	(0.006)		
BS-91F	Stainless Steel 430 Grade	0.06	0.381	0.762	0.022	0.0071	16.34	0.4	0.112	0.167	0.071	0.0174	0.0029		
BS-93F	S44004, Stainless Steel, low Ni	1.047	0.49	0.59	0.0266	(<0.0025)	16.72	0.187	0.46	0.132	0.057	0.021	0.0052	(0.0006)	0.0056
BS-94C	446 Stainless Steel	0.057	0.62	0.45	0.024	0.002	25.9	0.43	0.2	0.056	0.12	0.042	0.004		
BS-150	182FM Stainless Steel	0.048	0.43	1.71	0.02	0.33	18.61	0.19	1.97	0.042	0.054	0.024	0.002		
BS-151	416 Se Stainless Steel	0.09	0.65	0.41	0.021	0.018	13.19	0.24	0.088	0.11	0.046	0.018	(0.002)		
BS-152	420F Stainless Steel	0.32	0.44	0.36	0.022	0.275	13.41	0.14	0.061	0.05	0.051	0.015	(0.002)		
BS-153	430F Stainless Steel	0.026	0.53	0.41	0.018	0.28	17.38	0.14	0.3	0.052	0.045	0.017	0.002		(0.004)

	Analyte - Measured Values (continued)																
Code	B	Ca	Fe	N	Nb	Pb	Sb	Se	Sn	Ta	Ti	W	Zn	Zr		Size	Type
BS-17-4PHA	0.0016			0.022	0.204					(0.002)						Ø 36-44x12 mm	RM
BS-17-4PHB	0.0036			0.046	0.31					(0.002)						Ø 36-44x12 mm	RM
BS-0021	(<0.0002)	(0.0002)		0.029	(0.001)				0.003		(0.003)	0.005				Ø 35-45x12 mm	CRM
BS-0022	0.0007			0.033	0.007	(0.0006)	(0.0004)		0.004		0.002	(0.008)	<0.002	<0.003		Ø 38-45x12 mm	CRM
BS-90F				0.037	0.011				0.005			0.032				Ø 38-45x13 mm	RM
BS-91F	(0.0002)	0.0012		0.0558	0.012		(0.0017)		0.0054		0.0018	0.012				Ø 38x19 mm	CRM
BS-93F	(0.0001)	0.0019	(80.2)	0.051	0.0029	(0.0002)	0.0016		0.0059		0.0012	0.0016		(0.001)		Ø 38-45x13 mm	CRM
BS-94C	0.0005	0.0008		0.065	0.032				0.006			0.03				Ø 38-45x12 mm	RM
BS-150				0.029	0.003				(0.003)			0.01				Ø 35-45x13 mm	RM
BS-151				0.022	0.005			0.328	0.005		(<0.003)	0.01				Ø 35-45x13 mm	RM
BS-152				0.02	0.006				0.003			<0.01				Ø 35-45x13 mm	RM
BS-153				0.021	0.002	(0.001)			0.002		(0.004)	(0.002)				Ø 35x19 mm	RM

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BS - Ferritic Martensitic Steel

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Mg	As	B
BS-154	430F Stainless Steel	0.03	1.26	0.4	0.027	0.302	17.58	0.25	0.31	0.063	0.046	0.019	(0.002)			
BS-155	440F Stainless Steel	1	0.4	0.35	0.014	0.145	16.64	0.13	0.46	0.035	0.1	0.019	(0.001)			
BS-156	440F Se Stainless Steel	1.06	0.47	1.15	0.022	0.007	16.87	0.35	0.5	0.09	0.13	0.047	(<0.002)			
BS-183A	Greek Ascoloy Steel	0.172	0.37	0.35	0.016	0.004	12.14	1.85	0.12	0.093	0.09	0.036	0.002		(0.002)	(<0.0005)
BS-185A	Steel - 15-5 PH	0.033	0.38	0.49	0.022	0.002	14.46	4.43	0.3	3.41	0.048	0.026	0.002			0.0017
BS-355	355 Stainless Steel	0.136	0.374	0.862	0.0171	0.0003	15.43	4.18	2.73	0.173	0.106	0.053	0.0192	(0.0002)	0.0039	(0.0001)
BS-410C	Stainless steel, 410	0.131	0.366	0.381	0.0206	0.0051	12.78	0.352	0.055	0.084	0.042	0.0185	0.0079	(0.0003)	0.0029	(0.0001)
BS-416	Stainless Steel 416 / UNS S41600	0.11	0.24	0.67	0.024	0.34	13.4	0.37	0.033	0.16	0.10	0.025	0.002	0.0003	0.003	<0.005
BS-422	Stainless Steel 422, S42200	0.232	0.404	0.640	0.0169	0.0013	11.25	0.676	0.896	0.080	0.274	0.0293	0.0135	(0.009)	0.0041	(0.0002)
BS-430	Stainless Steel, grade 430 - UNS S43000	0.061	0.37	0.71	0.024	0.002	16.5	0.22	0.052	0.12	0.057	<0.5	<0.05	<0.005	0.003	<0.005
BS-431	Stainless Steel 431, S43100	0.146	0.393	0.579	0.0232	0.0047	15.8	2.25	0.092	0.282	0.062	0.050	0.0019	(0.0002)	0.0038	0.0003
BS-9621	15Cr5Ni Stainless Steel	0.035	0.468	0.31	0.017	0.0011	14.93	4.61	0.063	3.42	0.096	0.029	0.003			0.0004
BS-9622	15Cr5Ni Stainless Steel	0.032	0.42	0.63	0.019	0.004	14.34	4.34	0.27	3.34	0.074	0.04	0.002			0.0004
BS-SS4951	420 Stainless Steel	0.333	0.62	0.58	0.016	0.0012	13.55	0.15	0.009	0.033	0.032	0.013	0.002		0.002	0.0002
BS-SS4952	420 Stainless Steel	0.347	0.66	0.41	0.016	0.003	13.15	0.23	0.049	0.045	0.089	0.03	0.003		0.002	(0.0004)

Analyte - Measured Values (continued)

Code	Ca	Fe	N	Nb	Pb	Sb	Se	Sn	Ta	Ti	W	Zr		Size	Type
BS-154			0.039	0.005				(0.005)			(0.01)			Ø 35-45x13 mm	RM
BS-155			0.032	0.002				(0.003)						Ø 35-45x13 mm	RM
BS-156			0.041	0.005			0.142	(0.004)		0.001	0.11			Ø 41x19 mm	RM
BS-183A	0.002		0.0256	0.006		(0.001)		0.003		0.002	2.6			Ø 35-41x12 mm	RM
BS-185A	(0.0002)		0.027	0.32				0.007	(0.002)	(0.001)	(0.014)			Ø 35-41x12 mm	RM
BS-355	(0.0002)	75.9	0.081	0.0103	(0.00003)	(0.0009)		0.0038	(0.0001)	0.0007	0.0069	(0.003)		Ø 41x19 mm	CRM
BS-410C	0.0022	85.4	0.039	0.0056	(0.0001)	(0.0002)		0.0023	(0.001)	0.0006	0.0131	(0.0002)		Ø 38x19 mm	CRM
BS-416	0.0002	84.5	0.047	0.004	<0.005			0.003		0.002	<0.05	0.002		Ø 38x19 mm	CRM
BS-422	0.0031	84.5	0.050	0.045	(0.00005)	(0.0007)		0.0043	(0.0001)	0.0011	0.95	(0.001)		Ø 38x19 mm	CRM
BS-430	<0.005	81.7	0.06	0.01	<0.005			0.009	<0.05	<0.05	<0.5	<0.005		Ø 44x19 mm	prov.
BS-431	0.0007	80.2	0.049	0.034		0.0011		0.0134		0.0007	0.012	(0.001)		Ø 38x19 mm	CRM
BS-9621	(0.0001)		0.013	0.27				0.003	(0.002)	(0.001)	(0.01)			Ø 31-50x12 mm	RM
BS-9622			0.028	0.33				0.006		(0.001)	(0.02)			Ø 31-50x12 mm	RM
BS-SS4951	0.0004		0.0127	0.006				0.003		0.002	0.003			Ø 42x 19 mm	RM
BS-SS4952	0.0019		0.027	0.004				0.004		0.002	(0.007)			Ø 38-45x19 mm	RM

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MBH - Ferritic Martensitic Steel

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Mg	As	B
MBH-13X 8110L D	Martensitic (Cr) Steel	0.75	0.812	0.446	0.052	0.068	12.3	4.62	2.81	0.344	0.211	0.31	0.071		0.074	0.989
MBH-13X 12547 M	Martensitic Stainless Steel	0.235	0.34	1.2	0.045	0.074	17.6	1.5	1.0	0.52	0.105	0.3				
MBH-13X 12548 M	Martensitic (Cr) Steel	0.189	0.421	0.576	0.0260	0.218	12.98	1.08	1.33	0.228		0.352				
MBH-13X 12549 L	Martensitic Stainless Steel	0.1025	0.344	0.354	0.0052	0.124	12.01	1.203	1.311	0.492	0.0144	0.492				
MBH-13X 14122 A	Martensitic Stainless Steel (wrought), Ø 40x15 mm	0.356	0.449	0.48	0.0177	0.0021	15.91	0.632	0.855	0.066	0.101	0.0224	(0.002)			
MBH-13X 14219 K	Special Stainless Steel	0.0997	1.504	0.482	0.0401	0.0456	21.46	12.66	0.169	0.138	0.0188	0.0475				
MBH-13X 14418 A	Martensitic Stainless Steel (wrought), Ø 40x15 mm	0.045	0.291	0.819	0.0265	0.0108	15.44	4.65	0.847	0.173	0.0539	0.1004	(0.003)			
MBH-13X 14713 A	Ferritic Stainless Steel (wrought), Ø 40x14 mm	0.0446	0.911	0.495	0.0203	0.008	7.17	0.122	0.0266	0.0368	0.0411	0.011	0.551	0.0016		
MBH-13X 14742 A	Ferritic Stainless Steel (wrought), Ø 40x15 mm	0.084	0.91	0.714	0.0214	0.0008	17.6	0.449	0.0968	0.1267	0.0463	0.0186	0.804	0.0022		
MBH-13X 14762 A	Ferritic Stainless Steel (wrought), Ø 40x15 mm	0.082	1.069	0.662	0.0275	0.0007	24.38	0.346	0.0553	0.0801	0.0993	0.0293	1.318	0.0024		
MBH-13X 14775 R	Martensitic (Cr) Steel	0.05	0.63	1.37	0.053	0.054	17.7	1.75	0.47	0.21		0.15				
MBH-13X 14775 S	Martensitic (Cr) Steel	0.01	0.57	1.42	0.06	0.16	18.0	1.96	0.54	0.17	0.03	0.15	0.03			
MBH-13X 14923 A	Ferritic Stainless Steel	0.205	0.33	0.501	0.0197	0.0031	11.26	0.452	0.819	0.0207	0.297	0.0207	0.003			
MBH-13X 15023 W	Martensitic Stainless Steel	0.09	0.35	1.76	0.01	0.005	11.2	0.96	0.98	0.03	0.03	0.05	0.003			
MBH-13X 15024 X	Martensitic (Cr) Steel	0.166	0.749	0.61	0.0284	0.0294	14.65	2.99	0.299	0.332	0.15	0.1059	0.0049			

Analyte - Measured Values (continued)

Code	Ca	N	Nb	Sb	Sn	Ti	W	Zn		Size	Form	Type
MBH-13X 8110L D		0.0286				0.0108				Ø 40x15 mm	CC	CRM
MBH-13X 12547 M		0.1	0.34		0.03					Ø 40x15 mm	W	prov.
MBH-13X 12548 M		0.0508	0.585	0.022			0.033			Ø 40x15 mm	CC	CRM
MBH-13X 12549 L		0.0393	0.19							Ø 40x15 mm	CW	prov.
MBH-13X 14122 A		0.029	0.006		0.0041		0.004			Ø 40x15 mm	W	CRM
MBH-13X 14219 K			0.14				4.17			Ø 40x15 mm	CW	prov.
MBH-13X 14418 A		0.0423	(0.009)		0.005		0.013			Ø 40x15 mm	W	CRM
MBH-13X 14713 A		0.0065			0.0034	0.0056				Ø 40x15 mm	W	CRM
MBH-13X 14742 A		0.0209	0.0202		0.0046	0.0051		0.0055		Ø 40x15 mm	W	CRM
MBH-13X 14762 A	0.0025	0.0285	0.0277		0.0048	0.0058				Ø 40x15 mm	W	CRM
MBH-13X 14775 R			1.53							Ø 40x15 mm	C	CRM
MBH-13X 14775 S			0.7		0.001					Ø 40x15 mm	C	prov
MBH-13X 14923 A	0.0044	0.0321	0.005		0.004					Ø 40x15 mm	CC	CRM
MBH-13X 15023 W		0.01	1.43				0.039			Ø 40x15mm	CC	prov
MBH-13X 15024 X		0.0156	0.099				0.039			Ø 40x15 mm	W	prov.

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MBH - Ferritic Martensitic Steel

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	B	Ca	N	Nb
MBH-13X 15035 U	Martensitic stainless steel	0.115	0.636	0.674	0.0415	0.0456	14	2.38	0.399	0.204	0.16	0.199	0.093			0.0584	0.5
MBH-13X 15059 P	Martensitic stainless steel	0.084	0.495	0.995	0.013	0.0133	15.85	1.584	0.6	0.105	0.07	0.266				0.113	0.43
MBH-13X 31635 A	Austenitic Stainless Steel	0.0254	0.487	1.807	0.0352	0.0301	16.98	10.8	2.089	0.404	0.0584	0.174	0.0054			0.02	0.01
MBH-13X 31726 A	High Nitrogen Stainless Steel	0.0124	0.415	1.849	0.0218	0.0012	17.62	13.56	4.56	0.206	0.0426	0.0502	0.0208			0.135	0.009
MBH-13X 32101 A	High nitrogen stainless steel	0.0325	0.777	4.91	0.0194	0.0004	21.12	1.476	0.097	0.295	0.083	0.0347	0.0122	0.0014		0.241	0.007
MBH-13X 32900 A	Special Stainless Steel	(0.025)	(0.555)	(1.47)	(0.0270)	(0.0265)	(24.9)	(5.57)	(1.31)	(0.354)	(0.094)	(0.072)	(0.007)	(0.0028)		(0.0975)	
MBH-13X 41001 A	Martensitic Stainless Steel	0.136	0.298	0.464	0.0142	0.0037	12.06	0.0939	0.0102	0.056	0.079	0.0143	0.004		0.0010	0.0316	
MBH-13X 41500 A	Martensitic Stainless Steel	0.0385	0.402	0.596	0.021	0.0101	13	3.52	0.504	0.1296	0.091	0.0999				0.0504	0.0405
MBH-13X 41600 A	Stainless Steel, type AISI 416	0.111	0.442	0.627	0.0253	0.302	13.23	0.331	0.0499	13.23	0.0888	0.0213	0.004			0.0245	0.0053
MBH-13X 42000 A	Martensitic stainless steel	0.208	0.496	0.679	0.0241	0.0253	12.56	0.295	0.0398	0.202	0.046	0.0161		0.0013		0.0273	
MBH-13X 42200 A	Martensitic Stainless Steel	0.22	0.32	0.65	0.018	0.001	11.5	0.73	1.06	0.14	0.25	0.01	0.003			0.06	0.02
MBH-13X 43020 A	Martensitic Stainless Steel	0.15	0.45	1.45	0.025	0.19	16.0	0.52	0.23	0.07	0.055	0.02	0.005	0.005		0.022	0.01
MBH-13X 43100 A	Martensitic stainless steel	0.166	0.535	0.378	0.0199	0.005	16.39	2.1	0.0768	0.134	0.0577	0.0239				0.075	0.006
MBH-13X 44004 A	Martensitic Stainless Steel	1.052	0.363	0.346	0.0214	0.0178	16.74	0.207	0.462	0.0548	0.076	0.0188	0.0305			0.0247	
MBH-13X 64152 A	Special Stainless Steel	0.114	0.224	0.666	0.0123	0.0020	11.34	2.50	1.567	0.0622	0.275	0.0185	0.0315			0.0339	

Analyte - Measured Values (continued)

Code	Sn	Ta	Ti	W		Size	Form	Type
MBH-13X 15035 U				0.048		Ø 40x15 mm	CC	CRM
MBH-13X 15059 P			0.038	0.081		Ø 40x15 mm	CC	CRM
MBH-13X 31635 A			0.149	0.031		Ø 40x15 mm	W	prov.
MBH-13X 31726 A				0.0384		Ø 40x15 mm	W	prov.
MBH-13X 32101 A	0.0035	0.115				Ø 38x15 mm	W	CRM
MBH-13X 32900 A			(0.014)	(0.016)		Ø 40x15 mm	W	CRM
MBH-13X 41001 A	0.0051					Ø 41x15 mm	W	CRM
MBH-13X 41500 A			0.0012			Ø 40x15 mm	W	prov.
MBH-13X 41600 A	0.0066			0.003		Ø ~41 x 15 mm	W	CRM
MBH-13X 42000 A	0.0073					Ø 38x15 mm	W	CRM
MBH-13X 42200 A				1.15		Ø 38x15 mm	W	CRM
MBH-13X 43020 A				0.01		Ø 40x15 mm	W	CRM
MBH-13X 43100 A	0.004			0.004		Ø 38x15 mm	W	CRM
MBH-13X 44004 A				0.03		Ø 40x15 mm	W	CRM
MBH-13X 64152 A	0.0053					Ø 38x15 mm	W	CRM

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MBH - Ferritic Martensitic Steel

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	B	N	Nb	Sn
MBH-14X HS10 A	Tool Steel	1.710	0.66	0.134	0.0135	0.0099	14..83	0.148	1.679	0.0605	1.142	0.0866			0.001		
MBH-14X HS11 A	Tool Steel	1.739	0.794	0.237	0.0133	0.0107	19.34	0.188	1.52	0.0582	1.032	0.074			0.002		
MBH-13X PH2 M	Precipitation Hardening Steel	0.0598	0.502	1.184	0.0201	0.0419	16.8	3.56	1.009	4.03	0.1028	0.0927	0.0419	0.0047	0.052	0.143	
MBH-13X PH3 M	Precipitation Hardening Steels	0.184	1.6	0.395	0.0188	0.0208	15.86	3.08	0.751	5.99	0.176	0.420		0.0049	0.070	0.394	
MBH-13X PH7 F	Precipitation Hardening Steel	0.118	1.402	1.487	0.0283	0.0057	13.16	5.41	2.52	0.777	0.043	0.0493	0.012		0.044	0.241	
MBH-13X PH4 N	Precipitation Hardening Steel	0.04	0.747	0.793	0.0285	0.0166	14.87	4	0.247	5.24	0.5	0.6	0.094	0.0033	0.078	0.303	
MBH-13X 1.4122 A	Martensitic Stainless Steel	0.35	0.46	0.47	0.017	0.002	15.9	0.62	0.85	0.065	0.1	0.022	0.002		0.03	0.006	0.003
MBH-13X 1.4418 A	Martensitic Stainless Steel	0.042	0.29	0.81	0.025	0.015	15.4	4.65	0.85	0.17	0.055	0.1	0.002		0.042	0.01	0.005
MBH-13X 1.4713 A	Ferritic Stainless Steel	0.045	0.92	0.49	0.018	0.008	7.1	0.12	0.025	0.038	0.045	0.01	0.55		0.006		0.003
MBH-13X 1.4742 A	Ferritic Stainless Steel	0.085	0.9	0.72	0.022	0.002	17.6	0.45	0.1	0.13	0.045	0.015	0.82		0.02	0.02	0.005
MBH-13X 1.4762 A	Ferritic Stainless Steel	0.082	1.05	0.66	0.028	0.001	24.3	0.35	0.055	0.08	0.1	0.03	1.3		0.027	0.03	0.005
MBH-13X 1.4923 A	Cr Steel with Mo	0.2	0.33	0.5	0.021	0.003	11.2	0.46	0.82	0.055	0.3	0.02	0.003		0.033	0.005	0.003

Analyte - Measured Values (continued)

Code	Ti	W		Size	Form	Type
MBH-14X HS10 A		1.75		Ø 48x13 mm	HIP	CRM
MBH-14X HS11 A		2.24		Ø 48x13 mm	HIP	CRM
MBH-13X PH2 M	0.049			Ø 40x15 mm	W	prov.
MBH-13X PH3 M				Ø 40x15 mm	CC	CRM
MBH-13X PH7 F	0.0196			Ø 40x15 mm	W	prov.
MBH-13X PH4 N	0.1			Ø 40x15 mm	W	prov.
MBH-13X 1.4122 A		0.003		Ø 40x15 mm	W	CRM
MBH-13X 1.4418 A	.	0.01		Ø 40x15 mm	W	CRM
MBH-13X 1.4713 A	0.005			Ø 40x15 mm	W	CRM
MBH-13X 1.4742 A	0.005			Ø 40x15 mm	W	CRM
MBH-13X 1.4762 A	0.007			Ø 40x15 mm	W	CRM
MBH-13X 1.4923 A				Ø 40x15 mm	W	CRM

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CPT - Ferritic Martensitic Steel

		Analyte - Measured Values															
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Ag	N	Nb	Pb
CPT-410	Stainless Steel, low Ni	0.11	0.27	0.48	0.015	0.023	12.04	0.34	0.053	0.079	0.025	0.023	0.015	0.0002	0.036	0.001	<0.001
CPT-X23576	Stainless Steel, low Ni	0.116	0.4	0.4	0.018	0.027	12.3	0.26	0.062	0.072					0.032		
CPT-X68887	Steel, low alloyed	0.147	0.36	0.51	0.016	0.007	11.86	0.22	0.008	0.074			<0.004		0.028	0.12	
CPT-X68890	Steel, low alloyed	0.147	0.35	0.48	0.015	0.007	11.87	0.1	0.009	0.064			<0.004		0.03	0.1	

	Analyte - Measured Values (continued)					
Code	Sn	Ti	W		Size	Type
CPT-410	0.006	0.001	0.004		Ø 35x20 mm	RM
CPT-X23576					Ø 35x20 mm	RM
CPT-X68887	0.004				Ø 35x20 mm	RM
CPT-X68890	0.004				Ø 35x20 mm	RM

IMZ - Ferritic Martensitic Steel

		Analyte - Measured Values																
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	As	N	Nb	Pb	Sb
IMZ-154	High Alloy Steel	0.076	0.89	2.18	0.04	0.16	17.71	9.86	2.58	0.33	0.073	0.105	(0.16)					
IMZ-155	High Alloy Steel	0.078	0.49	0.84	0.018	0.012	11.07	0.77	0.056	0.084	0.045		(0.20)					
IMZ-156	High Alloy Steel	0.101	1.11	0.84	0.031	0.008	16.96	0.64	0.035	0.071	0.073	(0.033)	(0.034)					
IMZ-158	High Alloy Steel	0.091	2.23	1.34	0.015	0.007	25.51	0.24	0.025	0.097	0.078		1.56					
IMZ-161	High Alloy Steel	0.074	0.65	0.29	0.023	0.023	12.9	0.55	1.1	0.56	0.33							
IMZ-163A	High Alloy Steel	0.058	0.39	1.38	0.018	0.01	22.62	4.59	2.4	0.061	0.029	(0.02)	0.018	(0.0035)	0.221	0.13	(0.001)	
IMZ-167	High Alloy Steel	0.175	0.755	1.16	0.016	0.0025	13.07	0.16	0.024	0.106	0.054	(0.021)	(0.018)		0.053			
IMZ-168	High Alloy Steel	0.24	1.12	1.36	0.019	0.012	13.91	0.17	0.026	0.093	0.053	(0.019)	0.004		(0.057)			
IMZ-171	High Alloy Steel	0.195	0.21	0.42	0.02	0.014	11.44	0.59	1.23	0.116	0.26	0.024	0.036		0.057			(0.003)

	Analyte - Measured Values (continued)					
Code	Sn	Ti	W		Size	Type
IMZ-154		1			Ø 40x40 mm	CRM
IMZ-155		0.19	(0.095)		Ø 40x40 mm	CRM
IMZ-156		(0.032)			Ø 40x40 mm	CRM
IMZ-158		0.12			Ø 40x40 mm	CRM
IMZ-161			1.05		Ø 40x40 mm	CRM
IMZ-163A	(0.003)	(0.002)	(0.016)		Ø 40x40 mm	CRM
IMZ-167	0.009	(0.002)			Ø 40x40 mm	CRM
IMZ-168	0.009	(0.003)			Ø 40x40 mm	CRM
IMZ-171	0.008	(0.001)			Ø 40x40 mm	CRM

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SPL - Ferritic Martensitic Steel

		Analyte - Measured Values															
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	B	N	Nb	Sn
SPL-SL-1A-10MM	Alloy steel QCM	0.078	0.53	0.46	0.024	0.011	13.4	0.23	0.03	0.09	0.017	0.02	0.86		0.025		0.01
SPL-SL-1A-25MM	Alloy steel QCM	0.078	0.53	0.46	0.024	0.011	13.4	0.23	0.03	0.09	0.017	0.02	0.86		0.025		0.01
SPL-SL-4A-10MM	Alloy steel QCM	1.38	0.008	2.85	0.038	0.017	26.3	2.04	0.92	0.75	0.54	0.11	0.12	0.0013		1.11	0.02
SPL-SL-4A-25MM	Alloy steel QCM	1.38	3.21	2.85	0.038	0.017	26.3	2.04	0.92	0.75	0.54	0.11	0.12	0.0013		1.11	0.02

	Analyte-MeasuredValues (continued)			
Code	Ti	W	Size	Type
SPL-SL-1A-10MM	0.004	0.1	Ø35-43x10mm	RM
SPL-SL-1A-25MM	0.004	0.1	Ø35-43x25mm	RM
SPL-SL-4A-10MM	0.8	0.35	Ø35-43x10mm	RM
SPL-SL-4A-25MM	0.8	0.35	Ø35-43x25mm	RM

MQ (DSZU) - Ferritic Martensitic Steel

		Analyte - Measured Values														
Code	Description	C	Si	Mn	P	Cr	Ni	Mo	Cu	V	As	B	Ca	N	Pb	Sb
MQ-C21	Stainless steel	(0.4)	(0.3)	(0.1)	(0.02)	(13)	(1.2)	(0.1)	(0.2)	(0.03)	0.005	(0.002)	(0.001)	(0.03)	0.0002	0.0011
MQ-C22	Stainless steel	(0.4)	(0.2)	(0.1)	(0.02)	(13)	(1.5)	(0.1)	(0.5)	(0.03)	0.051	(0.03)	(0.002)	(0.04)	0.023	0.05
MQ-C23	Stainless steel	(0.4)	(0.3)	(0.1)	(0.02)	(13)	(1.4)	(0.1)	(0.2)	(0.03)	0.008	(0.004)	(0.002)	(0.1)	0.0008	0.006
MQ-C24	Stainless steel	(0.4)	(0.2)	(0.1)	(0.02)	(13)	(1.5)	(0.1)	(0.3)	(0.03)	0.014	(0.007)	(0.003)	(0.12)	0.0017	0.01
MQ-C25	Stainless steel	(0.3)	(0.3)	(0.1)	(0.02)	(13)	(1.6)	(0.1)	(0.7)	(0.03)	0.093	(0.03)	(0.004)	(0.1)	0.038	0.094

	Analyte - Measured Values (continued)			
Code	Sn	Zn	Size	Type
MQ-C21	0.003	0.0026	Ø 40x20 mm	CRM
MQ-C22	0.051	0.019	Ø 40x20 mm	CRM
MQ-C23	0.01	0.0028	Ø 40x20 mm	CRM
MQ-C24	0.011	0.0035	Ø 40x20 mm	CRM
MQ-C25	0.095	0.034	Ø 40x20 mm	CRM

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NCS - Ferritic Martensitic Steel

		Analyte - Measured Values															
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	As	N	Nb	Pb
NCS HS28747	Stainless Steel	0.132	0.502	0.453	0.027	0.0068	16.24	1.79	0.153	0.126	0.075	0.051		0.0063	0.03		0.0001
NCS HS28748	Stainless Steel	0.045	0.644	0.742	0.028	0.013	15.88	3.85	0.259	3.23	0.076	0.119		0.0047	0.03	0.23	0.0001
NCS HS41747	Corrosion-resisting alloy	0.071	0.36	0.807	0.015	0.0006	20.72	32.27	0.297	0.038		0.05	0.299				
NCS HS41748	Stainless Steel	0.194	0.54	0.62	0.016	0.011	12.70	0.077	0.010	0.008	0.048						
NCS HS41749	Stainless Steel	0.21	0.56	0.39	0.023	0.012	12.27	1.52	0.158	1.15	0.074						
NCS HS41752	Stainless Steel	0.97	0.48	0.46	0.023	0.0016	17.61	0.192	0.057	0.082	0.088		(0.032)				

	Analyte - Measured Values (continued)				
Code	Sn	Ti		Size	Type
NCS HS28747	0.0057	(0.002)		Ø 38x35 mm	CRM
NCS HS28748	0.0063	(0.002)		Ø 38x35 mm	CRM
NCS HS41747		0.49		Ø 38x30 mm	CRM
NCS HS41748				Ø 38x38 mm	CRM
NCS HS41749				Ø 38x38 mm	CRM
NCS HS41752				Ø 38x38 mm	CRM

NCS - Ferritic Martensitic Steel (Sets)

		Analyte - Measured Values													
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	Al(s)	Ti		Size	Type
NCS HS15701-1	Cr-Stainless Steel (Set only)	0.057	0.344	0.362	0.048	0.008	15.66	0.293	0.085	0.028	0.238	0.0062		Ø 32x30 mm	CRM
NCS HS15701-2	Cr-Stainless Steel (Set only)	0.174	0.541	0.505	0.034	0.008	13.61	0.315	0.171	0.075	0.181	0.0065		Ø 32x30 mm	CRM
NCS HS15701-3	Cr-Stainless Steel (Set only)	0.261	0.748	0.648	0.028	0.063	11.91	0.09	0.267	0.188	0.291	0.0064		Ø 32x30 mm	CRM
NCS HS15701-4	Cr-Stainless Steel (Set only)	0.366	0.936	1.51	0.024	0.024	8.75	0.188	0.359	0.23	0.138	0.0074		Ø 32x30 mm	CRM
NCS HS15701-5	Cr-Stainless Steel (Set only)	0.502	1.38	1.17	0.016	0.042	7.85	0.24	0.46	0.263	0.103	0.0068		Ø 32x30 mm	CRM

		Analyte - Measured Values														
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Ti	W	Size	Type
NCS HS23703-1	Steel Cr13 (Set only)	0.04	0.223	0.13	0.0062	0.0028	14.26	0.5	0.064	0.056	0.059	0.016	0.041	0.058	Ø 33x33 mm	CRM
NCS HS23703-2	Steel Cr13 (Set only)	0.245	0.42	0.337	0.0103	0.032	11.03	0.393	0.353	0.284	0.151	0.054	0.079	0.27	Ø 33x33 mm	CRM
NCS HS23703-3	Steel Cr13 (Set only)	0.159	0.568	0.495	0.0165	0.017	12.52	0.207	0.157	0.171	0.089	0.036	0.091	0.19	Ø 33x33 mm	CRM
NCS HS23703-4	Steel Cr13 (Set only)	0.34	0.772	0.74	0.0262	0.0054	9.37	0.461	0.244	0.374	0.201	0.078	0.371	0.38	Ø 33x33 mm	CRM
NCS HS23703-5	Steel Cr13 (Set only)	0.472	0.487	0.983	0.043	0.041	7.84	0.771	0.487	0.522	0.287	0.116	0.187	0.5	Ø 33x33 mm	CRM

Values listed in mass %: ( ) Uncertified Value,

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HB - Ferritic Martensitic Steel

		Analyte - Measured Values															
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	As	Nb	Sn	Ti
HB MW11	Stainless Steel, low Ni	0.095	1.81	0.36	0.014	0.015	6.51	0.66									
HB MW13	Stainless Steel, low Ni	0.2	0.6	0.88	(0.017)	0.019	9.85	0.94	0.84		0.72				0.4		
HB MW14	Stainless Steel, low Ni	0.072	0.9	0.69	(0.013)	0.013	13.25	0.69		0.47			0.018			(0.015)	0.083
HB MW14(30MM)	Stainless Steel, low Ni	0.072	0.9	0.69	(0.013)	0.013	13.25	0.69		0.47			0.018			(0.015)	0.083
HB MW16	Stainless Steel, low Ni	0.096	1.3	0.64	0.015	0.013	14.34	0.59		0.12			0.51				0.2
HB MW16(30MM)	Stainless Steel, low Ni	0.096	1.3	0.64	0.015	0.013	14.34	0.59		0.12			0.51				0.2
HB MW17	Stainless Steel, low Ni	0.044	0.6	0.71	0.015	0.013	15.65	0.43		0.4							0.26
HB MW17(30MM)	Stainless Steel, low Ni	0.044	0.6	0.71	0.015	0.013	15.65	0.43		0.4							0.26
HB MW19	Stainless Steel, low Ni	0.1	1.18	0.49	0.013	0.012	17.11	0.53		0.22			0.88				0.16
HB MW22	Stainless Steel, low Ni	1.08	0.94	1.14	0.01	0.016	19.12	0.63		0.034	0.033	0.021		0.0023			
HB MW24	Stainless Steel, low Ni	0.13	0.93	0.63	0.014	0.016	26.98	0.76									
HB MW24(30MM)	Stainless Steel, low Ni	0.13	0.93	0.63	0.014	0.016	26.98	0.76									
HB MW25	Stainless Steel, low Ni	0.21	2.52	1.15	(0.03)	0.014	27.83	4.48	0.56	0.045	0.18						

	Analyte - Measured Values (continued)				
Code	W	Zr		Size	Type
HB MW11				Ø 40x12 mm	RM
HB MW13	1.11			Ø 40x12 mm	RM
HB MW14				Ø 40x12 mm	RM
HB MW14(30MM)				Ø 40x30 mm	RM
HB MW16		(0.011)		Ø 40x12 mm	RM
HB MW16(30MM)		(0.011)		Ø 40x30 mm	RM
HB MW17				Ø 40x12 mm	RM
HB MW17(30MM)				Ø 40x30 mm	RM
HB MW19				Ø 40x12 mm	RM
HB MW22				Ø 40x12 mm	RM
HB MW24				Ø 40x12 mm	RM
HB MW24(30MM)				Ø 40x30 mm	RM
HB MW25	0.5			Ø 40x12 mm	RM

VASKUT - Ferritic Martensitic Steel

		Analyte - Measured Values												
Code	Description	C	Si	Mn	P	S	Cr	Ni	Cu	Ti	W		Size	Type
VASKUT-H2	Steel, creep-resistant	0.42	0.42	0.91	0.02	0.003	15	0.31	0.35	0.05	0.5		Ø 32-35x19 mm	CRM
VASKUT-H5	Steel, creep-resistant	0.12	0.70	0.48	0.017	0.003	21.8	0.2	0.22	0.03	0.1		Ø 32-35x19 mm	CRM
VASKUT-H6/1	Steel, creep-resistant	0.20	0.67	0.49	0.021	0.024	18.9	0.15	0.1	0.1	(0.12)		Ø 32-35x19 mm	CRM
VASKUT-H7/1	Steel, creep-resistant	0.062	0.42	0.35	0.018	0.022	9.07	0.1	0.085	0.21	0.15		Ø 32-35x19 mm	CRM

Values listed in mass %: ( ) Uncertified Value,

C=Cast, CC=Chill Cast, CCC=Continuous Chill Cast, CW=Concast/Wrought, W=Wrought, SC=Single Cast, HIP=Hot Isostatically-pressed Powder

ARMI - Austenitic Steel

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Ce	Mg	As
IARM-2H-G	Stainless Steel, AISI 304 / UNS S30400	0.05	0.248	1.86	0.032	0.0278	18.28	8.23	0.264	0.437	0.066	0.13	0.0034	(<0.005)	(<0.025)	0.007
IARM-2H-X	Stainless Steel, AISI 304 / UNS S30400	0.05	0.248	1.86	0.032	0.0278	18.28	8.23	0.264	0.437	0.066	0.13	0.0034	(<0.005)	(<0.025)	0.007
IIARM-3D-G	Stainless & High Temperature Steel, AISI 309 / S30900	0.059	0.32	1.67	0.024	0.0008	22.53	12.05	0.32	0.25	0.133	0.083	0.004			(0.005)
IARM-3D-X	Stainless & High Temperature Steel, AISI 309 / S30900	0.059	0.32	1.67	0.024	0.0008	22.53	12.05	0.32	0.25	0.133	0.083	0.004			(0.005)
IARM-3E-G	Stainless Steel, AISI 309 / UNS S30900	0.0553	0.307	1.62	0.0259	0.0009	22.47	11.99	0.215	0.259	0.126	0.12	0.0045		(0.0003)	(0.005)
IARM-3E-X	Stainless Steel, AISI 309 / UNS S30900	0.0553	0.307	1.62	0.0259	0.0009	22.47	11.99	0.215	0.259	0.126	0.12	0.0045		(0.0003)	(0.005)
IARM-4E-G	Stainless Steel, AISI 310 / UNS S31000	0.044	0.514	1.07	0.0224	0.0006	24.25	20.18	0.32	0.234	0.052	0.066	0.004			(0.005)
IARM-4E-X	Stainless Steel, AISI 310 / UNS S31000	0.044	0.514	1.07	0.0224	0.0006	24.25	20.17	0.32	0.234	0.052	0.066	0.004			(0.005)
IARM-4F-G	Stainless Steel, AISI 310 / UNS S31000	0.047	0.434	1.17	0.0795	0.0015	24.5	20.1	0.142	0.146	0.146	0.067	0.015		(<0.002)	0.003
IARM-4F-X	Stainless Steel, AISI 310 / UNS S31000	0.047	0.434	1.17	0.0795	0.0015	24.5	20.1	0.142	0.146	0.146	0.067	0.015		(<0.002)	0.003
IARM-4G-G	Stainless Steel, AISI 310 / UNS S31000	0.0454	0.63	1.36	0.027	0.0008	24.9	19.2	0.58	0.32	0.092	0.085	0.008		0.007	0.005
IARM-4G-X	Stainless Steel, AISI 310 / UNS S31000	0.0454	0.63	1.36	0.027	0.0008	24.9	19.2	0.58	0.32	0.092	0.085	0.008		0.007	0.005
IARM-5I-G	Stainless Steel, AISI 316 / UNS S31600	0.049	0.435	1.443	0.0279	0.033	16.67	10.04	2.027	0.487	0.064	0.185	0.004	(<0.005)	(<0.005)	0.006
IARM-5I-X	Stainless Steel, AISI 316 / UNS S31600	0.049	0.435	1.443	0.0279	0.033	16.67	10.04	2.027	0.487	0.064	0.185	0.004	(<0.005)	(<0.005)	0.006
IARM-6I-G	Stainless & High Temperature Steel, AISI 321 / S32100	0.049	0.31	1.76	0.0208	0.023	17.76	9.20	0.133	0.202	0.048	0.052	0.084	(<0.005)	(<0.03)	(0.005)

Analyte - Measured Values (continued)

Code	B	Ca	N	Nb	Pb	Sb	Se	Sn	Ta	Ti	W	Zn	Zr		Size	Form	Type
IARM-2H-G	0.0005	(0.0021)	0.08	0.0099	(<0.003)	(0.0018)	(<0.03)	0.011	0.006	0.0019	0.022	(<0.006)	0.003		Ø 38x19 mm	W	CRM
IARM-2H-X	0.0005	(0.0021)	0.08	0.0099	(<0.003)	(0.0018)	(<0.03)	0.011	0.006	0.0019	0.022	(<0.006)	0.003		Ø 38x3 mm	W	CRM
IIARM-3D-G	0.0005	(0.001)	0.072	0.008				0.008	(0.003)	0.0024	0.02				Ø 38x19 mm		CRM
IARM-3D-X	0.0005	(0.001)	0.072	0.008				0.008	(0.003)	0.0024	0.02				Ø 38x3 mm		CRM
IARM-3E-G	0.0005	0.0015	0.063	0.014	0.0003	(0.0013)	(<0.022)	0.007	(0.005)	0.0022	0.018	(0.0004)	0.0018		Ø 38x19 mm	W	CRM
IARM-3E-X	0.0005	0.0015	0.063	0.014	0.0003	(0.0013)	(<0.022)	0.007	(0.005)	0.0022	0.018	(0.0004)	0.0018		Ø 38x3 mm	W	CRM
IARM-4E-G	0.0011		0.038	0.024				0.006	0.005	0.003	0.046		(0.001)		Ø 38x19 mm	W	CRM
IARM-4E-X	0.0011		0.038	0.024				0.006	0.005	0.003	0.046		(0.001)		Ø 38x3 mm	W	CRM
IARM-4F-G	0.0012	(0.002)	0.056	0.007	(<0.001)	(0.001)	(0.001)	0.005	0.007	31	12	(0.001)	0.002		Ø 38x19 mm		CRM
IARM-4F-X	0.0012	(0.002)	0.056	0.007	(<0.001)	(0.001)	(0.001)	0.005	0.007	31	12	(0.001)	0.002		Ø 38x3 mm		CRM
IARM-4G-G	0.0032	(0.001)	0.058	0.008	(0.0005)	(0.001)	(0.001)	0.008	0.008	0.029	0.017	(0.0005)	0.002		Ø 38x19 mm		CRM
IARM-4G-X	0.0032	(0.001)	0.058	0.008	(0.0005)	(0.001)	(0.001)	0.008	0.008	0.029	0.017	(0.0005)	0.002		Ø 38x3 mm		CRM
IARM-5I-G	0.0006	(0.0016)	0.048	0.0133	(0.0001)	(0.0019)	(0.001)	0.008	(0.006)	0.002	0.185	(0.005)	(0.002)		Ø 38x19 mm	W	CRM
IARM-5I-X	0.0006	(0.0016)	0.048	0.0133	(0.0001)	(0.0019)	(0.001)	0.008	(0.006)	0.002	0.185	(0.005)	(0.002)		Ø 38x3 mm	W	CRM
IARM-6I-G	0.0034	(0.0004)	0.013	0.018	(<0.02)	(0.0008)	(<0.03)	0.0060	(<0.01)	0.60	0.023	(0.003)	(0.003)		Ø 38x19 mm		CRM

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ARMI - Austenitic Steel

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Ce	Mg	Ag
IARM-6I-X	Stainless & High Temperature Steel, AISI 321 / S32100	0.049	0.31	1.76	0.0208	0.023	17.76	9.2	0.133	0.202	0.048	0.052	0.084	(<0.005)	(<0.03)	
IARM-6J-G	Stainless & High Temperature Steel, AISI 321 / S32100	0.045	0.62	1.52	0.028	0.002	17.74	9.0	0.387	0.383	0.081	0.191	0.0195		(<0.001)	
IARM-6J-X	Stainless & High Temperature Steel, AISI 321 / S32100	0.045	0.62	1.52	0.028	0.002	17.74	9.0	0.387	0.383	0.081	0.191	0.0195		(<0.001)	
IARM-7C-G	Nickel Alloy, Alloy 330 / UNS N08330	0.064	1.21	1.32	0.014	0.0004	18.4	34.9	0.095	0.031	0.06	0.041	0.017		0.0015	
IARM-7C-X	Nickel Alloy, Alloy 330 / UNS N08330	0.064		1.32	0.014	0.0004	18.4	34.9	0.095	0.031	0.06	0.041	0.017		0.0015	
IARM-8F-G	Stainless & High Temperature Steel, AISI 347 / S34700	0.048	0.468	1.54	0.033	0.01	17.36	9.02	0.424	0.454	0.084	0.155	0.004		(<0.0002)	(<0.0002)
IARM-8F-X	Stainless Steel, AISI 347 / UNS S34700	0.048	0.468	1.54	0.033	0.01	17.36		0.424	0.454	0.084	0.155	0.004		(<0.0002)	(<0.0002)
IARM-8G-G	Stainless Steel, AISI 347 / UNS S34700	0.042	0.36	1.468	0.0327	0.0126	17.2	9.02	0.359	0.39	0.062	0.162	0.003		(<0.02)	
IARM-8G-X	Stainless Steel, AISI 347 / UNS S34700	0.042	0.36	1.468	0.0327	0.0126	17.2	9.02	0.359	0.39	0.062	0.162	0.003		(<0.02)	
IARM-8H-G	Stainless & High Temperature Steel, AISI 347 / S34700	0.049	0.4	1.81	0.025	0.002	17.14	9.08	0.237	0.192	0.049	0.083	0.005		(<0.001)	
IARM-8H-X	Stainless & High Temperature Steel, AISI 347 / S34700	0.049	0.4	1.81	0.025	0.002	17.14	9.08	0.237	0.192	0.049	0.083	0.005		(<0.001)	
IARM-8I-G	Stainless & High Temperature Steel, AISI 347 / S34700	0.0424	0.38	1.395	0.0352	0.0118	17.08	9.01	0.416	0.441	0.057	0.301	0.003			
IARM-8I-X	Stainless & High Temperature Steel, AISI 347 / S34700	0.0424	0.38	1.395	0.0352	0.0118	17.08	9.01	0.416	0.441	0.057	0.301	0.003			
IARM-152C-G	Stainless Steel, 17-7PH / UNS S17700	0.072	0.263	0.74	0.024	0.0006	16.99	7.3	0.36	0.316	0.072	0.113	0.94			
IARM-152C-X	Stainless Steel, 17-7PH / UNS S17700	0.072	0.263	0.74	0.024	0.0006	16.99	7.3	0.36	0.316	0.072	0.113	0.94			

Analyte - Measured Values (continued)

Code	As	B	Bi	Ca	Fe	N	Nb	Pb	Sb	Se	Sn	Ta	Ti	W	Zn	Zr	Size	Form	Type
IARM-6I-X	(0.005)	0.0034		(0.0004)		0.013	0.018	(<0.02)	(0.0008)	(<0.03)	0.006	(<0.01)	0.6	0.023	(0.003)	(0.003)	Ø 38x3 mm		CRM
IARM-6J-G	(<0.04)	0.0024		(<0.001)		0.0109	0.01	(<0.03)	(<0.005)	(<0.001)	0.009	(0.01)	0.34	0.026	(<0.001)	(<0.002)	Ø 38x19 mm		CRM
IARM-6J-X	(<0.04)	0.0024		(<0.001)		0.0109	0.01	(<0.03)	(<0.005)	(<0.001)	0.009	(0.01)	0.34	0.026	(<0.001)	(<0.002)	Ø 38x3 mm		CRM
IARM-7C-G		0.0027			43.5	0.034	0.189	(0.0001)			0.002	(0.002)	0.022	(0.02)		(0.001)	Ø 38x19 mm	W	CRM
IARM-7C-X		0.0027			43.5	0.034	0.189	(0.0001)			0.002	(0.002)	0.022	(0.02)		(0.001)	Ø 38x3 mm	W	CRM
IARM-8F-G	(0.007)	(0.001)	(<0.001)	(0.0004)		0.042	0.64	(0.002)		(0.0025)	0.011	0.005	0.003	0.029	(<0.006)	(<0.012)	Ø 38x19 mm		CRM
IARM-8F-X	(0.007)	(0.001)	(<0.001)	(0.0004)		0.042		(0.002)		(0.0025)	0.011	0.005	0.003	0.029	(<0.006)	(<0.012)	Ø 38x3 mm		CRM
IARM-8G-G	(0.007)	0.0005		(<0.0005)		0.046	0.53	(<0.02)	(<0.02)	(0.01)	0.0107	0.004	0.0024	0.032	(<0.005)	0.002	Ø 38x19 mm	W	CRM
IARM-8G-X	(0.007)	0.0005		(<0.0005)		0.046	0.53	(<0.02)	(<0.02)	(0.01)	0.0107	0.004	0.0024	0.032	(<0.005)	0.002	Ø 38x3 mm	W	CRM
IARM-8H-G	(<0.01)	(0.0002)		(<0.002)		0.027	0.48	(<0.03)	(<0.002)	(<0.001)	0.008	(0.01)	0.0027	0.016	(<0.001)	(<0.002)	Ø 38x19 mm		prov.
IARM-8H-X	(<0.01)	(0.0002)		(<0.002)		0.027	0.48	(<0.03)	(<0.002)	(<0.001)	0.008	(0.01)	0.0027	0.016	(<0.001)	(<0.002)	Ø 38x3 mm		prov.
IARM-8I-G	(<0.008)	(0.0005)		(<0.001)		0.052	0.6	(<0.03)	(<0.002)	(<0.001)	0.012	(<0.005)	0.008	0.06	(<0.001)	(<0.005)	Ø 38x19 mm		CRM
IARM-8I-X	(<0.008)	(0.0005)		(<0.001)		0.052	0.6	(<0.03)	(<0.002)	(<0.001)	0.012	(<0.005)	0.008	0.06	(<0.001)	(<0.005)	Ø 38x3 mm		CRM
IARM-152C-G	(0.004)	0.0029				0.0172	0.012				0.007	(0.005)	0.098	0.026			Ø 38x19 mm		CRM
IARM-152C-X	(0.004)	0.0029				0.0172	0.012				0.007	(0.005)	0.098	0.026			Ø 38x3 mm		CRM

Values listed in mass %: ( ) Uncertified Value,

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ARMI - Austenitic Steel

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Ce	Mg
IARM-153C-G	Stainless Steel, AISI 317L / UNS S31703	0.0225	0.349	1.6	0.0289	0.0288	18.22	11.1	3	0.442	0.058	0.251	0.003		
IARM-153C-X	Stainless Steel, AISI 317L / UNS S31703	0.0225	0.349	1.6	0.0289	0.0288	18.22	11.1	3	0.442	0.058	0.251	0.003		
IARM-162D-G	Stainless Steel, AISI 304L / UNS S30403	0.024	0.57	1.82	0.0296	0.0271	18.31	8.15	0.573	0.52	0.063	0.074	0.0026		(0.0001)
IARM-162D-X	Stainless Steel, AISI 304L / UNS S30403	0.024	0.57	1.82	0.0296	0.0271	18.31	8.15	0.573	0.52	0.063	0.074	0.0026		(0.0001)
IARM-163E-G	Stainless Steel, AISI 316L / UNS S31603	(0.014)	(0.53)	(1.48)	(0.028)	(0.031)	(16.74)	(10.17)	(2.05)	(0.47)	(0.063)	(0.115)	(0.0039)		
IARM-163E-X	Stainless Steel, AISI 316L / UNS S31603	(0.014)	(0.53)	(1.48)	(0.028)	(0.031)	(16.74)	(10.17)	(2.05)	(0.47)	(0.063)	(0.115)	(0.0039)		
IARM-212D-X	Stainless Steel, Alloy 2205 / UNS S32205	0.019	0.34	1.21	0.024	0.0007	22.6	5.53	3.27	0.125	0.063	0.049	(0.005)		
IARM-234C-G	Stainless Steel, AISI 302HQ / UNS S30430	0.092	0.88	1.93	0.009	0.0027	18.15	9	0.012	3.41	0.055	0.034	0.035		(0.002)
IARM-234C-X	Stainless Steel, AISI 302HQ / UNS S30430	0.092	0.88	1.93	0.009	0.0027	18.15	9	0.012	3.41	0.055	0.034	0.035		(0.002)
IARM-241D-G	Stainless Steel, AISI 302 / UNS S30200	0.125	0.99	1.94	0.003	0.0021	18.12	9	(0.003)	0.24	0.031	0.022	0.022		
IARM-241D-X	Stainless Steel, AISI 302 / UNS S30200	0.125	0.99	1.94	0.003	0.0021	18.12	9	(0.003)	0.24	0.031	0.022	0.022		
IARM-253A-G	Stainless Steel, AISI 303Se / UNS S30323	0.041	0.5	1.5	0.14	0.0089	17.9	9.17	0.348	0.223	0.106	0.088	0.003		
IARM-253A-X	Stainless Steel, AISI 303Se / UNS S30323	0.041	0.5	1.5	0.14	0.0089	17.9	9.17	0.348	0.223	0.106	0.088	0.003		
IARM-253B-G	Stainless & High Temperature Steel, AISI 303Se / S30323	0.051	0.46	1.61	0.13	0.011	17.64	9.11	0.59	0.44	0.092	0.145	0.004	(<0.001)	(0.0006)
IARM-253B-X	Stainless & High Temperature Steel, AISI 303Se / S30323	0.051	0.46	1.61	0.13	0.011	17.64	9.11	0.59	0.44	0.092	0.145	0.004	(<0.001)	(0.0006)

Analyte - Measured Values (continued)

Code	As	B	Ca	N	Nb	Pb	Sb	Se	Sn	Ta	Ti	W	Zn	Zr	Size	Form	Type
IARM-153C-G	0.0061	0.0009	(0.0026)	0.086	0.015	(0.001)	(0.002)	(<0.04)	0.01	(0.006)	0.004	0.043	(<0.001)	0.004	Ø38x19mm	W	CRM
IARM-153C-X	0.0061	0.0009	(0.0026)	0.086	0.015	(0.001)	(0.002)	(<0.04)	0.01	(0.006)	0.004	0.043	(<0.001)	0.004	Ø38x3mm	W	CRM
IARM-162D-G	0.0072	0.0027	(0.003)	0.097	0.009	(<0.003)	(0.0019)	(<0.03)	0.0102	0.005	0.013	0.028	(<0.007)	(<0.007)	Ø38x19mm	W	CRM
IARM-162D-X	0.0072	0.0027	(0.003)	0.097	0.009	(<0.003)	(0.0019)	(<0.03)	0.0102	0.005	0.013	0.028	(<0.007)	(<0.007)	Ø38x3mm	W	CRM
IARM-163E-G	(0.008)	(0.0019)	(0.002)	(0.061)	(0.034)	(<0.0005)	(0.002)		(0.012)		(0.02)	(0.035)		(0.001)	Ø38x19mm	W	CRM
IARM-163E-X	(0.008)	(0.0019)	(0.002)	(0.061)	(0.034)	(<0.0005)	(0.002)		(0.012)		(0.02)	(0.035)		(0.001)	Ø38x3mm	W	CRM
IARM-212D-X	(0.01)	0.001	(0.001)	0.182	(0.009)	(0.001)			(0.003)	(0.003)	(0.002)	0.014		0.004	Ø38x3mm	W	CRM
IARM-234C-G	(0.001)	0.0023	(0.0017)	0.01	0.053	(0.001)	(0.004)	(0.003)	0.0017	0.003	0.026	0.006	(0.001)	0.006	Ø38x19mm	W	CRM
IARM-234C-X	(0.001)	0.0023	(0.0017)	0.01	0.053	(0.001)	(0.004)	(0.003)	0.0017	0.003	0.026	0.006	(0.001)	0.006	Ø38x3mm	W	CRM
IARM-241D-G	(0.001)	0.0016	(0.001)	0.006	0.03	(0.0004)		(0.002)	0.002	(0.004)	0.018	0.012		0.005	Ø38x19mm		CRM
IARM-241D-X	(0.001)	0.0016	(0.001)	0.006	0.03	(0.0004)		(0.002)	0.002	(0.004)	0.018	0.012		0.005	Ø38x3mm		CRM
IARM-253A-G		0.0003		0.0373	0.016			0.21	0.01		0.002	0.1			Ø38x19mm		CRM
IARM-253A-X		0.0003		0.0373	0.016			0.21	0.01		0.002	0.1			Ø38x3mm		CRM
IARM-253B-G	0.0052	0.0007	(0.0006)	0.031	0.021	(0.0002)	(0.0018)	0.13	0.012	(0.003)	0.0027	0.05	(<0.002)	(<0.008)	Ø38x19mm		CRM
IARM-253B-X	0.0052	0.0007	(0.0006)	0.031	0.021	(0.0002)	(0.0018)	0.13	0.012	(0.003)	0.0027	0.05	(<0.002)	(<0.008)	Ø38x3mm		CRM

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ARMI - Austenitic Steel

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Ce	Mg
IARM-289A-G	Stainless Steel, AISI 301 / UNS S30100	0.126	0.58	1.67	0.006	0.0019	17	7.12	0.005	0.016	0.01	0.054	0.01		
IARM-289A-X	Stainless Steel, AISI 301 / UNS S30100	0.126	0.58	1.67	0.006	0.0019	17	7.12	0.005	0.016	0.01	0.054	0.01		
IARM-289B-G	Stainless & High Temperature Steel, AISI 301 / S30100	0.161	0.99	1.92	0.004	0.0025	17.09	7.02	0.008	0.241	0.018	0.013	0.007	(<0.001)	(<0.001)
IARM-289B-X	Stainless & High Temperature Steel, AISI 301 / S30100	0.161	0.99	1.92	0.004	0.0025	17.09	7.02	0.008	0.241	0.018	0.013	0.007	(<0.001)	(<0.001)
IARM-296A-G	Stainless Steel, NMS MDC	0.074	0.38	10.6	0.027	0.002	11.2	1.71	0.6	0.12	0.056	0.018	(0.005)		
IARM-296A-X	Stainless Steel, NMS MDC	0.074	0.38	10.6	0.027	0.002	11.2	1.71	0.6	0.12	0.056	0.018	0.005		
IARM-301B-G	Stainless Steel, Alloy 2507 / UNS S32750	0.0206	0.419	0.807	0.251	0.001	25.06	7.01	3.75	0.192	0.07	0.055	0.005		(0.0003)
IARM-301B-X	Stainless Steel, Alloy 2507 / UNS S32750	0.0206	0.419	0.807	0.251	0.001	25.06	7.01	3.75	0.192	0.07	0.055	0.005		(0.0003)
IARM-316A-G	Stainless Steel, Alloy 253 MA / UNS S30815	0.07	1.5	0.61	0.023	0.0011	21.07	10.81	0.25	0.19	0.042	0.118	0.006	0.064	
IARM-316A-X	Stainless Steel, Alloy 253 MA / UNS S30815	0.07	1.5	0.61	0.023	0.0011	21.07	10.81	0.25	0.19	0.042	0.118	0.006	0.064	
IARM-318B-G	Stainless Steel, Alloy 16-6-1.5-1.5	0.05	0.41	1.02	0.022	0.0006	15.9	5.71	1.57	1.63	0.115	0.1	0.004		
IARM-318B-X	Stainless Steel, Alloy 16-6-1.5-1.5	0.05	0.41	1.02	0.022	0.0006	15.9	5.71	1.57	1.63	0.115	0.1	0.004		
IARM-319A-X	Stainless Steel, Zeron 100 / UNS S32760	0.015	0.23	0.53	0.024	0.0006	25.2	6.92	3.56	0.51	0.076	0.051	0.01		
IARM-339A-G	Stainless Steel, AISI 316H / UNS S31609	0.16	0.64	1.71	0.004	0.009	17	12.9	2.79	0.021	0.007	0.007	0.004		(0.0001)
IARM-339A-X	Stainless Steel, AISI 316H / UNS S31609	0.16	0.64	1.71	0.004	0.009	17	12.9	2.79	0.021	0.007	0.007	0.004		(0.0001)

Analyte - Measured Values (continued)

Code	As	B	Ca	N	Nb	Pb	Sb	Se	Sn	Ta	Ti	W	Zn	Zr	Size	Form	Type
IARM-289A-G		0.0003		0.0032	0.008				0.002	<0.005	0.028	0.01			Ø 38x19 mm	W	CRM
IARM-289A-X		0.0003		0.0032	0.008				0.002	<0.005	0.028	0.01			Ø 38x3 mm	W	CRM
IARM-289B-G	(<0.004)	0.0008	(0.001)	0.011	0.013	(0.005)	(<0.001)	(<0.006)	0.002	(0.003)	0.005	0.012	(<0.03)	0.007	Ø 38x19 mm		CRM
IARM-289B-X	(<0.004)	0.0008	(0.001)	0.011	0.013	(0.005)	(<0.001)	(<0.006)	0.002	(0.003)	0.005	0.012	(<0.03)	0.007	Ø 38x3 mm		CRM
IARM-296A-G		(0.001)		0.23	0.043				0.007		(0.002)	(0.01)			Ø 38x19 mm		CRM
IARM-296A-X		0.001		0.23	0.043				0.007		0.002	0.01			Ø 38x3 mm		CRM
IARM-301B-G	(0.004)	0.0024	(0.0009)	0.297	0.02	(0.0003)	(0.0006)	(0.00008)	0.0051	0.003	0.003	0.05	(0.0004)	0.0008	Ø 38x19 mm	W	CRM
IARM-301B-X	(0.004)	0.0024	(0.0009)	0.297	0.02	(0.0003)	(0.0006)	(0.00008)	0.0051	0.003	0.003	0.05	(0.0004)	0.0008	Ø 38x3 mm	W	CRM
IARM-316A-G	0.007	(0.0003)	0.0017	0.1605	(0.003)	(0.0001)			0.006	0.003)	0.002	0.022	(0.0008)		Ø 38x19 mm	W	CRM
IARM-316A-X	0.007	(0.0003)	0.0017	0.1605	0.003	(0.0001)			0.006	0.003	0.002	0.022	(0.0008)		Ø 38x3 mm	W	CRM
IARM-318B-G	(0.004)	0.0003		0.032	0.086				0.004	(0.004)	0.014	0.087		(0.003)	Ø 38x19 mm		CRM
IARM-318B-X	(0.004)	0.0003		0.032	0.086				0.004	(0.004)	0.014	0.087		(0.003)	Ø 38x3 mm		CRM
IARM-319A-X	(0.004)	0.002		0.24	0.006				0.0055	(0.002)	0.003	0.52		0.002	Ø 38x3 mm	W	CRM
IARM-339A-G	(0.001)	0.0006	0.0014	0.006	0.005	(0.002)			0.002	(0.005)	0.002	0.0119	(0.001)	0.003	Ø 38x19 mm	W	CRM
IARM-339A-X	(0.001)	0.0006	0.0014	0.006	0.005	(0.002)			0.002	(0.005)	0.002	0.0119	(0.001)	0.003	Ø 38x3 mm	W	CRM

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ECRM - Austenitic Steel

		Analyte - Measured Values									
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V
ECRM-F269-1D	High Alloy Steel - disc	0.0499	0.441	1.262	0.0313	0.001	18.15	8.044	0.397	0.366	0.0991
ECRM-S 270-1-D	Stainless steel (similar to EN 1.4835) - disc	0.0742	1.517	0.54	0.0196	0.0007	20.88	10.86	0.2099	0.1076	0.0256
ECRM-D 284-3-D	Stainless Steel 1.4571, 17% chromium, 11% nickel and 2% molybdenum - disc	0.0025	0.0442	0.0615	0.0049	0.0066	17.37	12.09	2.236	0.0105	
ECRM-B 285-2-D	Maraging steel - disc	0.0018	0.0117	0.0168	0.0053	0.0025	0.0236	18.07	4.99	0.0094	
ECRM-B 287-1-D	High boron stainless steel - disc	0.016	0.569	1.48	0.027	0.0014	18.61	10.35	0.247	0.203	
ECRM-D 289-1-D	Heat-resisting steel - disc	0.0489	0.531	1.016	0.0114	0.0027	14.63	24.68	1.102		0.26
ECRM-B 292-1-D	Nb-stabilised stainless steel - disc	0.0367	0.402	1.744	0.0175	0.0055	18	10.09	0.0464	0.0391	
ECRM-B 295-1-D	4% Mo-Cr-Ni steel - disc	0.0166	0.418	1.758	0.0167	0.0004	19.51	24.4	3.996	1.481	0.0453
ECRM-D 297-1-D	1.2 % boron steel, material-no. 1.4696 - disc	0.0223	0.344	0.897	0.0137	0.0101	18.37	12.33	0.29	0.204	0.0535
ECRM-S 298-1-D	Duplex stainless steel (similar to EN 1.4410) - disc	0.0146	0.262	0.398	0.0198	0.0006	24.72	7.056	3.799	0.201	0.0607

	Analyte - Measured Values (continued)															
Code	Co	Al	Ce	Mg	As	B	Bi	Ca	Fe	Ga	La	N	Nb	Nd	Pb	Sb
ECRM-F269-1D	0.1116		(0.00006)	(<0.0005)	0.0061	(<0.0001)	(<0.000002)			(0.0024)	(0.000002)	0.046	0.0242			(0.0012)
ECRM-S 270-1-D	0.0685	0.0023	0.0487	0.0009	0.0034					0.0021	0.0154	0.1417		0.0076		0.0007
ECRM-D 284-3-D	0.0366				0.00131	0.0002						0.0418				
ECRM-B 285-2-D	7.76	0.1067				0.0009						0.0007				
ECRM-B 287-1-D	0.148					0.924						0.019				
ECRM-D 289-1-D	0.065	0.199				0.0044										
ECRM-B 292-1-D	0.0255	0.002			0.008			0.0006				0.064	0.571			
ECRM-B 295-1-D	0.045	0.0203		0.0003	0.0041	0.0018			48.36			0.0615				0.0007
ECRM-D 297-1-D	0.0413	0.0195			0.004	1.146		0.0002				0.0152	0.0089			
ECRM-S 298-1-D	0.055	0.0285				0.0021			63.38			0.263			0.00008	

	Analyte - Measured Values (continued)											
Code	Se	Sn	Ta	Te	Ti	Tl	W	Zn	Zr		Size	Type
ECRM-F269-1D	(<0.0002)	0.0099	(<0.0001)	(<0.000001)	0.0006		0.0306	(0.0004)	(<0.0001)		Ø 35x25 mm	CRM
ECRM-S 270-1-D		0.0035	0.00001		0.0019	0.0000006	0.0244	0.00074	0.0002		Ø 38x25 mm	CRM
ECRM-D 284-3-D		0.00074			0.005		0.0039				Ø 38x30 mm	CRM
ECRM-B 285-2-D					0.52				0.005		Ø 38x30 mm	CRM
ECRM-B 287-1-D											Ø 38x30 mm	CRM
ECRM-D 289-1-D		0.111			2.01						Ø 35-39 x 20-35 mm	CRM
ECRM-B 292-1-D			0.001								Ø 38x30 mm	CRM
ECRM-B 295-1-D		0.0025									Ø 38x30 mm	CRM
ECRM-D 297-1-D					0.0072		0.0057		0.0002		Ø 40x25 mm	CRM
ECRM-S 298-1-D					0.0014						Ø 38x25 mm	CRM

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NIST - Austenitic Steel

		Analyte - Measured Values														
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	As	B	Bi	Fe
NIST-1155A	Stainless steel, Cr18Ni12Mo2	0.026	0.521	1.593	0.0271	(0.002)	17.803	12.471	2.188	0.2431	0.0725	0.225	<0.01	(0.007)	(0.002)	<0.0001	64.71
NIST-1171	Stainless steel: Cr-Ni-Ti (AISI 321)	0.067	0.536	1.81	(0.019)	(0.013)	17.5	11.18	0.167	0.1205		(0.097)					
NIST-1172	Stainless steel: Cr-Ni-Nb (AISI 348)	0.056	0.59	1.7	0.025	0.01	17.4	11.3	0.22	0.1		0.12					
NIST-C1151A	Stainless Steel 23Cr-7Ni	0.034	0.29	2.37	0.017	0.038	22.59	7.25	0.79	0.385	0.04	0.033					
NIST-C1152A	Stainless Steel 18Cr-11Ni	0.142	0.64	0.95	0.023	0.0064	17.76	10.86	0.44	0.097	0.033	0.22					
NIST-C1153A	Stainless Steel 17Cr-9Ni	0.225	1	0.544	0.03	0.019	16.7	8.76	0.24	0.226	0.176	0.127					
NIST-C1154A	Stainless Steel 19Cr-13Ni	0.1	0.53	1.44	0.06	0.051	19.31	13.08	0.068	0.44	0.135	0.38					

	Analyte - Measured Values (continued)										
Code	N	Nb	Pb	Sn	Ta	Ti	W	Zr		Size	Type
NIST-1155A	(0.0428)	0.0082	<0.005	(0.0069)	<0.0001	0.0039	0.0809	<0.003		Ø 32x19 mm	CRM
NIST-1171						0.346	(0.012)			Ø 31x19 mm	CRM
NIST-1172		0.65			<0.001					Ø 31x19 mm	CRM
NIST-C1151A			0.0039							Ø 32x19 mm	CRM
NIST-C1152A			0.0047							Ø 32x19 mm	CRM
NIST-C1153A			0.006							Ø 32x19 mm	CRM
NIST-C1154A			0.017							Ø 32x19 mm	CRM

IRSID - Austenitic Steel

		Analyte - Measured Values														
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	Co	B	N	Ti	Size	Type
IRSID-1819	Stainless Steel aust.	0.112	0.616	0.903	0.023	0.0112	17.31	7.1	0.11	0.064	0.117	0.0004	0.0288		47x47x30 mm	CRM
IRSID-1820	Stainless Steel aust.	0.021	0.428	1.61	(0.021)	0.0079	19.51	9.07	0.115	0.045	0.151	(0.0013)	0.064		47x47x30 mm	CRM
IRSID-1821	Stainless Steel aust.	0.037	0.542	1.72	(0.025)	(0.004)	17.04	10.42	2.04	0.058	0.266		0.0125	0.297	47x47x30 mm	CRM

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BAS - Austenitic Steel

		Analyte - Measured Values																
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	Co	Al	As	Nb	Pb	Sn	Size	Type
BAS-SS-CRM 462	Austenitic Stainless Steel	0.092	0.46	0.74	0.01	0.018	12.35	12.55					0.007		0.0005		Ø 38x19 mm	CRM
BAS-SS-CRM 475	Austenitic Stainless Steel	0.05	0.21	0.89	0.037	0.008	14.14	5.66	1.59	1.94	0.22	0.013		0.22		0.015	Ø 38x19 mm	CRM

BAS - Austenitic Steel (Set)

		Analyte - Measured Values															
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	As	B	N	Nb
BAS-SS-CRM 461/1	Austenitic Stainless Steel	0.0103	0.374	0.686	0.0053	0.0051	14.727	6.124	0.0138	0.0091		(0.004)					
BAS-SS-CRM 462/1	Austenitic Stainless Steel	0.0345	0.463	0.722	0.0053	0.0041	11.888	12.85	0.0304	0.0112							
BAS-SS-CRM 463/1	Austenitic Stainless Steel	0.019	0.27	1.400	0.025	0.019	18.46	10.20	0.265	0.276		0.116			0.0022	0.063	
BAS-SS-CRM 464/1	Austenitic Stainless Steel	0.086	0.57	0.791	0.020	0.028	25.39	20.05				0.054		(0.003)			
BAS-SS-CRM 465/1	Austenitic Stainless Steel	0.066	0.405	1.380	0.021	0.012	17.31	9.240	0.092	0.098	0.102	0.053	0.026		0.0006		
BAS-SS-CRM 466/2	Austenitic Stainless Steel	0.0141	0.48	1.311	0.0105	0.0069	17.84	10.20	2.776	0.0278	0.0346	0.0184	(0.002)	0.0020	0.0039	0.0508	
BAS-SS-CRM 467/1	Austenitic Stainless Steel	0.082	0.52	0.788	0.018	0.019	18.09	9.21						0.004			0.99
BAS-SS-CRM 468/1	Austenitic Stainless Steel	0.143	1.41	1.70	0.014	0.020	17.96	8.90				0.018					

	Analyte - Measured Values (continued)					
Code	Pb	Ta	Ti		Size	Type
BAS-SS-CRM 461/1					Ø 38x19 mm	CRM
BAS-SS-CRM 462/1					Ø 38x19 mm	CRM
BAS-SS-CRM 463/1					Ø 38x19 mm	CRM
BAS-SS-CRM 464/1	0.0004				Ø 38x19 mm	CRM
BAS-SS-CRM 465/1	(<0.001)		0.40		Ø 38x19 mm	CRM
BAS-SS-CRM 466/2					Ø 38x19 mm	CRM
BAS-SS-CRM 467/1	0.004	0.0017			Ø 38x19 mm	CRM
BAS-SS-CRM 468/1					Ø 38x19 mm	CRM

Values listed in mass %: ( ) Uncertified Value,

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BS - Austenitic Steel

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Ce	Mg	As	B
BS-82E	309 Stainless Steel	0.062	0.58	1.61	0.027	0.001	22.38	12.49	0.31	0.26	0.064	0.12	0.006				0.0024
BS-83G	310 Stainless Steel	0.073	0.56	1.66	0.024	0.004	24.5	19.15	0.085	0.114	0.077	0.153	(0.004)				(0.001)
BS-85D	321 Stainless Steel	0.049	0.55	1.69	0.025	0.024	17.09	10.03	0.59	0.45	0.134	0.97	0.13			0.006	0.0006
BS-86F	RA330 Stainless Steel	0.054	1.22	1.3	0.021	0.0011	18.74	34.99	0.24	0.23	0.061	0.098	(0.007)			(0.003)	0.0026
BS-87F	347 Stainless Steel	0.055	0.67	1.64	0.024	0.025	17.3	10.12	0.29	0.28	0.13	0.17	0.004			0.005	(0.0006)
BS-179B	Ferralium 255 stainless steel	0.0161	0.371	0.890	0.0243	0.0002	25.9	6.17	3.34	1.56	0.079	0.0394	0.0070		(0.0004)	0.0036	0.0015
BS-179C	Ferralium 255 stainless steel	0.0164	0.373	0.878	0.0236	0.0003	25.9	6.10	3.34	1.53	0.080	0.0386	0.0078		(0.0004)	0.0034	0.0015
BS-180A	Nitronic 50 Stainless Steel	0.018	0.32	5.05	0.012	0.001	21.09	13.19	2.04	0.067	0.2	0.039	0.012				(0.0023)
BS-184A	STAINLESS STEEL,PH13-8Mo	0.035	0.08	0.06	0.007	0.001	12.66	8.34	2.2	0.041	0.014	0.036	1				(0.0004)
BS-186A	Invar 36 High Alloy Steel	0.04	0.19	0.72	0.008	0.0053	0.16	35.86	0.0032	0.016	0.0012	0.028	(0.001)				
BS-187D	High alloy steel	0.0337	0.669	0.938	0.0155	0.0021	19.91	32.3	2.17	3.52	0.073	0.089	0.0164		(0.0009)	(0.0035)	0.0026
BS-188B	Stainless Steel A286, S66286	0.44	0.24	0.23	0.017	<0.005	14.2	24.8	1.28	0.11	0.26	0.27	0.17		<0.005	0.004	0.005
BS-192	Stainless Steel - 5-9.9% Ni	0.074	0.387	0.835	0.025	0.0005	16.44	7.11	0.43	0.412	0.124	0.104	1.17			(0.005)	(0.0003)
BS-192A	STAINLESS STEEL, 17-7PH	0.066	0.3	0.768	0.021	<0.002	16.44	7.01	0.28	0.334	0.077	0.114	0.98			(0.0035)	(0.0003)
BS-253	253 High Alloy Steel	0.094	1.81	0.58	0.018	<0.001	20.68	10.89	0.21	0.14	0.05	0.15	0.016	0.044		0.005	
BS-303	Stainless steel, 303	0.044	0.415	1.80	0.028	0.326	17.23	8.17	0.410	0.627	0.056	0.071	0.0019				0.0013
BS-304	304 Stainless Steel	0.018	0.451	1.775	0.039	0.0214	18.01	8.20	0.237	0.474	0.087	0.153	0.0022		(0.0003)	(0.005)	(0.0005)
BS-304A	304 Stainless Steel	0.019	0.56	1.706	0.0402	0.0188	18.17	8.20	0.28	0.548	0.067	0.126	0.0028		(0.0001)	(0.007)	(0.0005)

Analyte - Measured Values (continued)

Code	Ca	Fe	N	Nb	Pb	Sb	Se	Sn	Ta	Ti	W	Zr		Size	Type
BS-82E	0.0014		0.072	0.062				0.006		0.003	0.041			Ø 35-45x12 mm	RM
BS-83G			0.026	0.061				0.003		(0.003)	0.007			Ø 35-45x12 mm	RM
BS-85D	0.0004		0.016	0.065		0.001		(0.006)		0.48	0.06			Ø 35-45x12 mm	RM
BS-86F	(0.001)		0.035	0.19	(0.001)			0.004		(0.006)	0.03			Ø 44x12 mm	RM
BS-87F	0.0007		0.037	0.57				0.004		0.004	0.05			Ø 35-45x12 mm	RM
BS-179B	(0.0004)	(61.5)	0.239	0.008	(0.00002)	0.0005		0.0019	(0.0006)	(0.0008)	0.053	0.005		Ø 38x19 mm	CRM
BS-179C	(0.0003)	(61.6)	0.236	0.009	(0.00002)	0.0005		0.0018	(0.0006)	(0.0005)	0.056	0.0042		Ø 38x19 mm	CRM
BS-180A			0.334	0.2				(0.002)		(0.002)	0.02			Ø 31-41x12 mm	RM
BS-184A	(0.0003)		0.0045	(0.006)				(0.002)		0.051	0.032			Ø 35-41x12 mm	RM
BS-186A			0.0026	(<0.002)			0.229	0.002		(<0.003)	(0.01)			Ø 35-41x12 mm	RM
BS-187D	0.0063	(39.6)	0.046	0.621	0.0019	(0.0011)		0.0085	0.0008	0.0027	0.086	(0.0012)		Ø 38x19 mm	CRM
BS-188B	<0.005	56.1	0.002	0.10	<0.005			<0.01		2.2	0.04	0.002		Ø 38x19 mm	CRM
BS-192	0.0007		0.029	0.168				0.008	(0.001)	0.076	0.05			Ø 31-41x12 mm	CRM
BS-192A	(0.0006)		0.029	0.208				0.008		0.083	0.048			Ø 31-41x12 mm	CRM
BS-253			0.146	0.017				0.006		0.005	0.03			Ø 35-41x12 mm	RM
BS-303	0.001	70.7	0.023	0.008		0.002		0.0091		0.017	0.023			Ø 38x19 mm	CRM
BS-304	(0.001)	(70.5)	0.063	0.0054	(0.0003)	(0.002)		0.0116		(0.0004)	0.040	(0.001)		Ø 38x19 mm	CRM
BS-304A		(70.1)	0.072	0.014	(0.0001)	(0.002)		0.0096		(0.0005)	0.042	(0.001)		Ø 38x19 mm	CRM

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BS - Austenitic Steel

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Mg	As	B	Ca
BS-304B	Stainless Steel 304 / UNS S30400	0.018	0.54	1.71	0.024	0.024	18.3	8.7	0.42	0.26	0.097	0.22	0.003	0.0002	0.005	0.0005	0.0009
BS-316D	Stainless Steel 316, UNS S31600	0.0185	0.278	1.400	0.0294	0.0189	16.76	10.37	2.05	0.409	0.074	0.294	(0.002)	(0.0004)	0.0048	0.0038	(0.0008)
BS-316E	Stainless Steel 316, UNS S31600	0.0183	0.268	1.413	0.0295	0.0214	16.70	10.43	2.06	0.408	0.074	0.287	(0.0027)	(0.0004)	0.0045	0.0036	(0.0006)
BS-317L	317L Stainless Steel	0.027	0.67	1.17	0.029	0.0014	18.16	13.53	3.07	0.23	0.09	0.14	(0.005)			0.0013	
BS-321A	321 Stainless Steel	0.061	0.48	1.22	0.03	0.012	17.2	9.38	0.2	0.284	0.066	0.15	0.038		(0.006)	(0.0005)	(0.0002)
BS-321C	321 Stainless Steel	0.037	0.58	1.72	0.025	0.022	17.16	10.58	0.3	0.28	0.079	0.048	0.044		(0.004)	(0.0005)	(0.0001)
BS-347A	347 Stainless Steel	0.051	0.54	1.5	0.026	0.02	17.44	9.2	0.326	0.31	0.1	0.054	(0.002)		(0.003)	(0.0004)	(0.0002)
BS-347B	347 Stainless Steel	0.051	0.51	1.57	0.028	0.026	17.24	9.16	0.38	0.15	0.04	0.05	0.002		(0.003)	0.0036	(0.0005)
BS-2205	2205 Stainless Steel	0.0199	0.564	1.029	0.0227	0.0005	22.92	5.27	3.26	0.196	0.0560	0.041	0.0080	(0.0004)	0.0059	0.0016	0.0014
BS-9811	450 Stainless Steel	0.027	0.36	0.38	0.016	0.001	14.87	6.55	0.744	1.63	0.086	0.055	(0.003)		(0.003)	(0.0003)	0.0014
BS-9812	450 Stainless Steel	0.031	0.43	0.485	0.018	0.004	14.82	6.61	0.76	1.65	0.088	0.11	(0.002)		(0.005)	(0.0003)	0.0012
BS-9841	310 Stainless Steel	0.067	0.54	1.69	0.024	0.024	24.3	19.55	0.57	0.356	0.07	0.116	(<0.006)		(0.003)	0.0026	0.0002
BS-9842	310 Stainless Steel	0.059	0.99	1.5	0.025	0.0016	24.19	20.02	0.111	0.147	0.075	0.237	0.014		(0.002)	0.0025	0.001
BS-9941	317L Stainless Steel	0.021	0.33	1.78	0.027	0.024	18.48	13.68	3.24	0.424	0.062	0.178	0.004		(0.01)	0.0025	(0.0003)
BS-9942	317L Stainless Steel	0.021	0.49	1.84	0.025	0.006	18.21	13.55	3.3	0.305	0.072	0.086	0.004		(0.004)	0.0014	0.0014
BS-SS1961	455 Stainless Steel	0.009	0.056	0.049	0.008	0.0038	11.61	8.31	0.02	2.11	0.074	0.036	0.069		0.004	0.0022	
BS-SS1962	455 Stainless Steel	0.008	0.06	0.06	0.006	0.0025	11.42	8.32	0.008	2.22	0.071	(0.015)	0.067		0.002	0.0018	
BS-SS3951	304L Stainless Steel	0.014	0.61	1.56	0.023	0.031	18.17	9.18	0.303	0.22	0.067	0.16	0.002			(0.0006)	0.0005

Analyte - Measured Values (continued)

Code	Fe	N	Nb	Pb	Sb	Sn	Ta	Ti	W	Zr		Size	Type
BS-304B	69.6	0.079	0.083	<0.005		0.006		0.003	0.017	0.0026		Ø 38x19 mm	prov.
BS-316D	68.1	0.0042	0.0277	(0.0003)	(0.002)	0.0080		(0.002)	0.072	(0.002)		Ø 38x19 mm	CRM
BS-316E	68.1	0.042	0.0282	(0.0002)	0.002	0.0082		(0.002)	0.067	(0.002)		Ø 38x19 mm	CRM
BS-317L		0.056	0.031			0.005			0.018			Ø 35-45x12 mm	RM
BS-321A		0.0075	0.021			0.01	(0.002)	0.51	0.06			Ø 35-45x12 mm	RM
BS-321C		0.0082	0.008			0.006		0.38	(0.03)			Ø 35-45x12 mm	RM
BS-347A		0.044	0.79			0.007	(<0.004)	(0.002)	(0.03)			Ø 35-45x12 mm	RM
BS-347B		0.056	0.71			0.006	(<0.004)	(0.002)	(0.005)			Ø 35-45x12 mm	RM
BS-2205	(67.0)	0.169	0.0052	(0.0001)	0.0010	0.0050		0.0019	0.0309	(0.006)		Ø 38x19 mm	CRM
BS-9811		0.0196	0.62			0.004		(0.003)	0.013			Ø 35-44x19 mm	CRM
BS-9812		0.0195	0.645			0.004		(0.005)	0.025			Ø 35-44x19 mm	CRM
BS-9841		0.064	0.07	(0.001)	(0.006)	0.006		(0.002)	0.06	(0.002)		Ø 35-45x12 mm	CRM
BS-9842		0.037	0.026			0.005		0.003	0.011			Ø 35-45x12 mm	CRM
BS-9941		0.036	0.015			0.007		(0.002)	0.068			Ø 38-45x12 mm	CRM
BS-9942		0.071	0.005			0.006		(0.002)	0.032			Ø 38-45x12 mm	CRM
BS-SS1961		0.0025	0.26			0.004		1.16	(0.01)			Ø 31-50x12 mm	RM
BS-SS1962		0.0025	0.27			0.004		1.11	(<0.02)			Ø 31-50x12 mm	RM
BS-SS3951		0.077	0.085			0.007		(0.002)	0.04			Ø 35-45x12 mm	RM

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MBH - Austenitic Steel

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	B	Bi	N	Nb	Sb
MBH-13X 12533 Z	Austenitic stainless steel	0.11	0.44	0.812	0.0149	0.0156	18.8	5.06	1.05	0.131	0.181	0.0299	0.059	0.01		0.073		
MBH-13X 12534 X	Austenitic stainless steel	0.0716	0.811	0.589	0.0192	0.0086	17.71	8.5	2.04	0.0586	0.11	0.0602	0.0485				0.201	
MBH-13X 12535 BE	Austenitic Steels	0.229	1.407	0.342	0.04	0.0591	16.95	14.79	4.09	0.13	0.252	0.146	0.194	0.0051		0.029		
MBH-13X 12536 S	Austenitic Steels	0.149	0.865	0.406	0.052	0.136	15.3	12.07	2.54	0.065		0.298	0.049	0.0274		0.062		
MBH-13X 12537 T	Austenitic Stainless Steel	0.089	1.15	1.11	0.04	0.021	20.5	10.7	3.05	0.25	0.09	0.152	0.06			0.05	0.11	
MBH-13X 12538 J	Special Stainless Steel	0.04	0.64	0.78			23.72	6.07	1.53									
MBH-13X 12540 M	Special stainless steel	0.131	0.805	0.8	0.051	0.0512	27.44	4.975	0.993	0.181	0.21	0.109				0.054	0.107	
MBH-13X 12853 K	Austenitic Steels	0.109	1.057	0.838	0.0216	0.025	17.15	12.09	2.73	0.587		0.285		0.0051				0.0203
MBH-13X 12853 L	Austenitic Stainless Steel	0.065	0.95	1.15	0.007	0.006	17.1	12.2	2.7	0.09		0.04	0.17	0.002		0.008	0.19	
MBH-13X 12854 L	Austenitic Steels	0.053	1.308	1.3	0.024	0.0278	15.77	11.6	2.5	0.306		0.33		0.0076		0.055	0.689	
MBH-13X 12855 M	Austenitic Steels	0.182	1.1	1.162	0.024	0.0233	17.13	10.8	2.86	0.446		0.226		0.0099	0.015			0.21
MBH-13X 14207 K	Special Stainless Steel	0.147	1.52	0.901	0.0213	0.052	19.83	12.60	0.299	0.248		0.033				0.097	0.245	
MBH-13X 14207 L	Special Stainless Steel	0.037	1.4	0.58	0.006	0.005	19.6	12.3	0.57	0.18		0.01				0.01		
MBH-13X 14211 Q	Special stainless steel	0.064	1.64	0.766	0.0157	0.0146	25.7	12.55	0.325	0.161		0.071	0.11				0.161	
MBH-13X 14212 S	Stainless Steel	0.12	2.5	0.15	0.034	0.037	21.8	8.76	0.52	0.6	0.12	0.11				0.007	0.56	
MBH-13X 14215 L	Special Stainless Steel	0.136	0.596	1.11	0.005	0.0068	22.89	15.86	0.0048	0.011	0.048	0.0057					0.0196	
MBH-13X 14216 P	Special Stainless Steel	0.17	0.75	0.63	0.026	0.03	14.7	3.0	0.31	0.34	0.15	0.12	0.005			0.016	0.095	
MBH-13X 17001 C	Austenitic Steel	0.08	0.24	1.55	0.064	0.013	14.9	6.45	0.1	0.02		0.1	0.03	0.01		0.006	0.57	

Analyte - Measured Values (continued)

Code	Sn	Ta	Te	Ti	W	Zr		Size	Form	Type
MBH-13X 12533 Z	0.0097			0.147				Ø 40x15 mm	CC	CRM
MBH-13X 12534 X		0.031		0.348	0.01			Ø 40x15 mm	W	CRM
MBH-13X 12535 BE	0.0194		-0.02	0.625				Ø 40x15 mm	CC	prov.
MBH-13X 12536 S	0.018	0.091		0.105				Ø 40x15 mm	CC	CRM
MBH-13X 12537 T			0.019	0.27				Ø 40x15 mm	CC	prov.
MBH-13X 12538 J								Ø 40x15 mm	C	RM
MBH-13X 12540 M					0.097			Ø 40x15 mm	CC	CRM
MBH-13X 12853 K		0.013		0.0028	0.095	0.015		Ø 40x15 mm	CC	CRM
MBH-13X 12853 L		0.03		0.042	0.09			Ø 40x15 mm	CC	prov.
MBH-13X 12854 L		0.06		0.065	0.16			Ø 42x15 mm	CC	CRM
MBH-13X 12855 M		0.05		0.061	0.201			Ø 40x15 mm	CC	CRM
MBH-13X 14207 K		0.064			3.18			Ø 40x15 mm	CC	CRM
MBH-13X 14207 L		0.08			3.0			Ø 40x15 mm	CC	prov.
MBH-13X 14211 Q				0.22	3.24			Ø 40x15 mm	CC	CRM
MBH-13X 14212 S					3.72			Ø 40x15 mm	CC	prov.
MBH-13X 14215 L					3.02			Ø 40x15 mm	CW	prov.
MBH-13X 14216 P					0.04			Ø 40x15 mm	CW	prov.
MBH-13X 17001 C	0.001	0.01						Ø 40x15 mm	C	prov

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MBH - Austenitic Steel

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	B	Ca	N	Nb
MBH-13X 17002 E	Austenitic Stainless Steel	0.112	0.486	0.801	0.0409	0.025	17.45	7.87	0.204	0.1012	0.0587	0.0702	(0.03)	0.0012		0.061	0.487
MBH-13X 17003 A	Austenitic Steels	0.1	0.78	0.85	0.037	0.035	11.89	11.9	0.27	0.08		0.07					0.34
MBH-13X 17005 D	Austenitic stainless steel	0.107	1.5	0.349	0.0209	0.057	24.72	20.84	0.699	0.1076		0.051		0.0028		0.064	0.191
MBH-13X 18001 B	Austenitic Steels	(0.20)	(0.23)	(0.47)	(0.007)	(0.080)	(16.0)	(6.10)	(0.80)	(0.15)	(0.095)	(0.03)	(0.02)			(0.032)	(0.43)
MBH-13X 18002 D	Austenitic Steels	(0.15)	(0.39)	(0.74)	(0.024)	(0.05)	(17.9)	(7.90)	(0.22)	(0.13)	(0.055)	(0.065)	(0.06)			(0.066)	(1.50)
MBH-13X 18003 C	Austenitic Steels	(0.10)	(0.79)	(1.00)	(0.055)	(0.028)	(19.8)	(9.80)	(0.42)	(0.054)	(0.074)	(0.10)	(0.035)			(0.086)	(1.05)
MBH-13X 18004 B	Austenitic stainless steel	0.099	1.21	1.4	0.068	0.0191	21.57	12.67	0.601	0.05	0.161	0.211	0.011			0.061	0.749
MBH-13X 19001 B	Austenitic Steels	0.055	1.2	0.46	0.0151	0.0174	15.07	5.1	1.51	0.202	0.083	0.025				0.07	0.032
MBH-13X 19003 C	Austenitic Stainless Steel	0.047	0.497	1.138	0.0382	0.046	18.99	12.46	2.5	0.171	0.0486	0.105				0.077	0.12
MBH-13X 19004 C	Austenitic Stainless Steel	0.07	0.33	2.0	0.08	0.013	22.8	17.9	3.4	0.01	0.04	0.05	0.03				0.16
MBH-13X 21800 A	High nitrogen stainless steel	0.0765	4.03	8	0.032	0.0011	16.81	8.32	0.325	0.431	0.0619	0.0943	0.012	0.001		0.125	0.007
MBH-13X 30300 A	Austenitic Stainless Steels	0.041	0.424	1.83	0.0205	0.312	17.62	8.6	0.334	0.025	0.091	0.0255		0.0035		0.034	
MBH-13X 30403 A	Austenitic Stainless Steels	0.02	0.284	1.495	0.029	0.025	18.27	7.93	0.193	0.217	0.113	0.101				0.081	0.019
MBH-13X 30908 A	Austenitic stainless steel	0.056	0.32	1.638	0.0267	0.0011	22.51	12.05	0.221	0.269	0.128	0.12	0.0035	0.0027	0.0005	0.0652	0.0142
MBH-13X 31008 A	Special Stainless Steel	0.063	0.503	1.173	0.0302	0.0040	24.48	1.234	0.338	0.159	0.262	0.078				0.063	0.013
MBH-13X 31254 A	High nitrogen stainless steel	0.0185	0.4	0.59	0.0191	0.0011	20.11	18.34	6.13	0.575	0.0595	0.125	0.0134	0.0025		0.205	
MBH-13X 31603 A	Austenitic Stainless Steel	0.0242	0.332	1.78	0.0284	0.0246	16.83	10.17	1.98	0.322	0.093	0.0571	0.0098	0.0011	0.003	0.08	0.0078
MBH-13X 31603 B	Austenitic Stainless Steel	0.0167	0.325	1.898	0.0262	0.0210	16.89	10.07	2.04	0.350	0.101	0.133	0.009		0.0022	0.082	0.0099

Analyte - Measured Values (continued)

Code	Sn	Ta	Te	Ti	W	Size	Form	Type
MBH-13X 17002 E		(0.012)				Ø 40x15 mm	W	CRM
MBH-13X 17003 A						Ø 40x15 mm	C	RM
MBH-13X 17005 D		0.049				Ø 40x15 mm	CC	CRM
MBH-13X 18001 B						Ø 40x15 mm	W	CRM
MBH-13X 18002 D						Ø 40x15 mm	W	CRM
MBH-13X 18003 C						Ø 42x15 mm	W	CRM
MBH-13X 18004 B						Ø 40x15 mm	W	CRM
MBH-13X 19001 B		0.019				Ø 40x15 mm	W	CRM
MBH-13X 19003 C			-0.005			Ø 40x15 mm	W	prov.
MBH-13X 19004 C		0.01				Ø 40x15 mm	C	prov.
MBH-13X 21800 A						Ø 38x15 mm	W	CRM
MBH-13X 30300 A						Ø 40x15 mm	W	CRM
MBH-13X 30403 A					0.018	Ø 40x15 mm	W	CRM
MBH-13X 30908 A						Ø 38x15 mm	W	CRM
MBH-13X 31008 A					0.165	Ø 38x15 mm	W	CRM
MBH-13X 31254 A					0.017	Ø 40x15 mm	W	CRM
MBH-13X 31603 A	0.0045				0.0444	Ø 32x20 mm	W	CRM
MBH-13X 31603 B	0.0057			(0.001)	0.063	Ø 32x20 mm	W	CRM

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MBH - Austenitic Steel

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	B	N	Nb	Sn
MBH-13X 31603 C	Austenitic Stainless Steel	0.0167	0.325	1.898	0.0262	0.021	16.89	10.07	2.04	0.35	0.101	0.133	0.009		0.082	0.0099	0.0057
MBH-13X 32100 A	Stainless Steel Type AISI 321	0.0463	0.498	1.52	0.0298	0.0011	17.39	9.32	0.282	0.415	0.106	0.105	0.0247	0.0025	0.0115	0.0191	0.0115
MBH-13X 32101 A	High nitrogen stainless steel	0.0325	0.777	4.91	0.0194	0.0004	21.12	1.476	0.097	0.295	0.083	0.0347	0.0122	0.0014	0.241	0.007	0.0035
MBH-13X 34700 A	Austenitic Stainless Steel	0.016	0.48	1.29	0.028	0.0006	17.19	9.38	0.393	0.163	0.123	0.131	0.023	0.0008	0.0166	0.33	
MBH-13X 45500 A	Stainless Steel (wrought)	0.003	0.055	0.027	0.005	0.002	11.4	8.3	0.015	2.2	0.065	0.015	0.07		0.002		
MBH-13X 66286 A	Precipitation Hardening Steel	0.035	0.216	1.173	0.0172	0.0006	14.99	25.21	1.185	0.195	0.262	0.083	0.193	0.0044	0.0040		
MBH-13X FV520B A	Precipitation hardening steel	0.0181	0.342	0.655	0.0221	0.0016	13.73	5.29	1.334	1.462	0.08	0.03			0.0197	0.301	
MBH-13X NSA2 H	Nitrogen Stainless Steels	0.13	0.739	1.02	0.025	0.028	17.7	10.0	2.00	0.26	0.14				0.13	0.15	
MBH-13X NSA3 J	High Nitrogen Stainless Steels	0.16	0.57	1.07			16.1	12.0	2.8						0.20		
MBH-13X NSA5 A	High Nitrogen Stainless Steels	0.063	0.281	4.27	0.010	0.0212	20.73	9.52	2.32	0.098			0.012		0.340	0.574	
MBH-13X NSA6 B	High nitrogen stainless steel	0.0467	0.64	1.607	0.06	0.0113	26.14	31.13	7.03	1.52			0.08		0.245	0.149	
MBH-13X NSA7 A	High Nitrogen Stainless Steels	0.0209	0.359	0.951	0.022	0.0009	25.91	5.67	3.25	1.42			0.009		0.247	0.015	
MBH-13X NSA8 A	High Nitrogen Stainless Steels	0.0240	(0.4)	0.656	0.0216	0.0008	25.93	6.29	3.60	0.903	0.060	0.0374			0.239	0.004	
MBH-13X NSA9 A	High Nitrogen Stainless Steels	0.019	0.469	1.592	0.0248	0.0007	22.57	5.44	22.57	0.240	0.068	0.012			0.156	0.012	
MBH-13X NSA10 A	High Nitrogen Stainless Steels	0.016	0.375	5.23	0.0207	0.0006	20.69	12.96	2.636	0.175	0.151	0.061		0.0029	0.343	0.142	
MBH-13X NSA11 A	High Nitrogen Stainless Steels	0.0159	0.275	0.640	0.0186	<0.001	20.19	23.89	6.16	0.187	0.0513	0.0981	0.02		0.203	0.150	
MBH-13X NSA12 A	High Nitrogene Stainless Steel	0.0192	0.492	1.272	0.0267	0.0007	19.63	24.84	4.20	1.485	0.0660	0.090	0.0169	0.0020	0.0662	0.0088	
MBH-13X NSB1 D	High Nitrogen Stainless Steels	0.17	0.58	0.44			19.1	10.0	0.11						0.04		

Analyte - Measured Values (continued)

Code	Ta	Ti	W	Size	Form	Type
MBH-13X 31603 C		(0.001)	0.063	Ø 32x20 mm	W	CRM
MBH-13X 32100 A		0.376	0.021	Ø 38x15 mm	W	CRM
MBH-13X 32101 A	0.115			Ø 38x15 mm	W	CRM
MBH-13X 34700 A			0.146	Ø 38x15 mm	W	CRM
MBH-13X 45500 A		1.2		Ø 38x15 mm	W	prov.
MBH-13X 66286 A		1.92	0.098	Ø 38x15 mm	W	CRM
MBH-13X FV520B A			0.02	Ø 40x15 mm	W	CRM
MBH-13X NSA2 H				Ø 40x15 mm	CC	CRM
MBH-13X NSA3 J				Ø 40x15 mm	W	CRM
MBH-13X NSA5 A				Ø 40x17 mm	CC	CRM
MBH-13X NSA6 B				Ø 40x15 mm	CC	CRM
MBH-13X NSA7 A				Ø 40x15 mm	W	CRM
MBH-13X NSA8 A			0.586	Ø 44x15 mm	W	CRM
MBH-13X NSA9 A			0.024	Ø 40x15 mm	W	CRM
MBH-13X NSA10 A			0.061	Ø 38x17 mm	W	CRM
MBH-13X NSA11 A			0.038	Ø 38x15 mm	W	CRM
MBH-13X NSA12 A			0.047	Ø 40x15 mm	W	CRM
MBH-13X NSB1 D				Ø 40x15 mm	W	RM

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MBH Austenitic Steel

		Analyte - Measured Values														
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	B	N	Nb
MBH-13X NSB2 D	High Nitrogen Stainless Steels	0.06	0.66	0.62			18.2	11.1	0.21						0.095	
MBH-13X NSB3 G	High Nitrogen Stainless Steels	0.121	0.471	0.632			15.22	9.26	0.630						0.198	
MBH-13X NSC1 P	High nitrogen stainless steel	0.316	0.788	6.53		0.0097	18.76	5.06	0.196	0.391	0.501				0.0877	1.499
MBH-13X NSC2 P	Nitrogen Stainless Steels	0.55	0.997	4		0.01	22	4	0.8	1.0	0.3				0.3	2.2
MBH-13X NSC3 Z	High Nitrogen Stainless Steel	0.895	1.28	10.15		0.011	23.02	2.96	0.06	0.1	0.11		0.105		0.498	2.81
MBH-13X NSC4 F	High Nitrogen Stainless Steel	0.513	1.52	7.97		0.0071	32.58	7.03	1.39	0.162	0.219	0.218	0.119		0.942	2.41
MBH-13X NSC5 B	High nitrogen stainless steel	0.558	1.19	2.22		0.0155	22.1	4.34	0.009	0.787	0.0461		0.21		0.296	2.38
MBH-13X NSC6 A	High Nitrogen Stainless Steels	0.0266	0.523	8.85	0.0049	0.0055	20.47	6.52	0.002	0.0064	0.0052		0.009		0.235	
MBH-13X NSC7 A	High Nitrogen Stainless Steels	0.410	0.803	3.80	0.0155	0.0091	23.63	7.41	0.448	0.144	0.3	0.308	0.1		0.337	2.2
MBH-13X PH2S143 A	Precipitation Hardening Steel	0.044	0.479	0.546	0.0212	0.0021	13.46	5.20	1.326	1.61	0.087	0.0483			0.0246	0.225
MBH-13X PH13800 A	Precipitation Hardening Steels	0.0386	0.081	0.0332	0.0064	0.0030	12.52	8.04	2.10	0.0449	0.0188	0.0220	1.075		0.0041	
MBH-13X PH17400 A	Precipitation Hardening Steels	0.0200	0.349	0.829	0.020	0.0215	15.74	4.52	0.061	3.09	0.112				0.0342	0.184
MBH-13X PH17700 A	Precipitation-Hardening Steel	0.0732	0.551	0.496	0.0181	0.0008	16.88	6.98	0.340	0.146	0.0390	0.0468	1.172	0.0033	0.0192	0.0201

	Analyte - Measured Values (continued)				
Code	Ti	W	Size	Form	Type
MBH-13X NSB2 D			Ø 40x15 mm	W	RM
MBH-13X NSB3 G			Ø 42x15 mm	W	CRM
MBH-13X NSC1 P		0.1	Ø 40x15 mm	CC	CRM
MBH-13X NSC2 P		0.06	Ø 40x17 mm	CC	CRM
MBH-13X NSC3 Z			Ø 40x15 mm	CC	CRM
MBH-13X NSC4 F		0.204	Ø 40x15 mm	CC	prov.
MBH-13X NSC5 B			Ø 40x15 mm	CC	CRM
MBH-13X NSC6 A			Ø 40x13 mm	HIP	CRM
MBH-13X NSC7 A		0.06	Ø 40x13 mm	CC	CRM
MBH-13X PH2S143 A		0.018	Ø 32x15 mm	W	CRM
MBH-13X PH13800 A	0.0122		Ø 38x15 mm	W	CRM
MBH-13X PH17400 A		0.0056	Ø 42x15 mm	W	CRM
MBH-13X PH17700 A	0.051	0.009	Ø 38x15 mm	W	CRM

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NCS - Austenitic Steel

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Al(s)	Al(t)	As	N	Nb
NCS HS11775	Alloy Steel	0.085	0.787	1.62	0.029	0.002	25.53	20.72										
NCS HS15752	Stainless steel	0.023	0.659	1.16	0.030	0.0019	17.35	11.13	2.12	0.314		0.104		0.0034	0.0039		0.046	
NCS HS28741	Stainless Steel	0.039	0.425	1.07	0.037	0.016	18.31	8.19	0.027	0.399	0.106	0.208				0.0035	0.069	
NCS HS28742	Stainless Steel	0.021	0.414	0.94	0.034	0.0028	18.2	8.11	0.025	0.043	0.089	0.216				0.0025	0.059	
NCS HS28743	Stainless Steel	0.11	0.78	0.841	0.024	0.0082	23.71	18.02	0.115	0.089	0.077	0.102	0.0056			0.0042	0.057	0.016
NCS HS28744	Stainless Steel	0.067	0.435	1.1	0.028	0.021	16.8	10.39	2.01	0.166	0.048	0.063	0.012			0.0037	0.063	0.027
NCS HS28745	Stainless Steel	0.018	0.317	1.17	0.042	0.0057	16.61	10.34	2.05	0.334	0.07	0.185				0.0055	0.07	
NCS HS28746	Stainless Steel	0.021	0.51	1.87	0.031	0.0009	17.19	8.24	0.069	0.34	0.096	0.191	0.086			0.0032	0.011	
NCS HS31742	1Cr18Ni9Ti	0.096	0.566	1.27	0.03	0.005	17.25	8.22	0.132	0.307		0.112	0.098					
NCS HS31743	304L(00Cr19Ni10)	0.028	0.445	0.98	0.050	0.009	17.94	8.18	0.298	1.23		0.144						
NCS HS41750	Stainless Steel	0.075	0.33	1.43	0.031	0.012	16.31	6.35	0.107	0.276	0.064		0.009				0.058	
NCS HS41751	Stainless Steel	0.039	0.353	1.81	0.035	0.2	17.22	8.12	0.044	0.124	0.121		(0.004)				0.064	
NCS HS41753	Stainless Steel	0.013	0.42	1.45	0.025	0.0057	19.27	24.4	4.29	1.51	0.093		(0.012)				0.02	(0.012)

Analyte - Measured Values (continued)

Code	Pb	Sn	Ti	Size	Type
NCS HS11775				Ø 35x20 mm	CRM
NCS HS15752				Ø 40x40 mm	CRM
NCS HS28741	0.0001	0.0051	(0.002)	Ø 38x35 mm	CRM
NCS HS28742	0.0001	(0.0001)	0.006	Ø 38x35 mm	CRM
NCS HS28743	0.0004	0.0025	(0.003)	Ø 38x35 mm	CRM
NCS HS28744	0.0005	0.0034	(0.006)	Ø 38x35 mm	CRM
NCS HS28745	0.0001	0.0073	(0.002)	Ø 38x35 mm	CRM
NCS HS28746	0.0002	0.0065	0.184	Ø 38x35 mm	CRM
NCS HS31742			0.555	Ø 38x30 mm	CRM
NCS HS31743				Ø 38x30 mm	CRM
NCS HS41750			(0.001)	Ø 38x38 mm	CRM
NCS HS41751	(0.001)		(0.001)	Ø 38x38 mm	CRM
NCS HS41753			(0.0013)	Ø 38x38 mm	CRM

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NCS - Austenitic Steel (Sets)

		Analyte - Measured Values															
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	Co	Al	As	Pb	Sn	Ti	W
NCS HS11709A-1	Stainless Steel (Set of 6 only)	0.0035	1.13	0.343	0.065	0.049	28.0	4.76	0.04	0.202	0.012	0.107	0.0027	0.0004	0.051	0.053	0.032
NCS HS11709A-2	Stainless Steel (Set of 6 only)	0.139	0.555	1.06	0.022	0.013	14.37	14.58	0.305	0.133	0.166	0.029	0.021	0.00017	0.015	0.475	0.577
NCS HS11709A-3	Stainless Steel (Set of 6 only)	0.183	0.352	0.981	0.015	0.0098	10.66	19.13	0.606	0.057	0.222	0.019	0.024	0.00013	0.0089	0.577	0.735
NCS HS11709A-4	Stainless Steel (Set of 6 only)	0.06	0.971	0.704	0.035	0.032	19.73	11.24	0.169	0.258	0.078	0.096	0.011	0.0003	0.033	0.253	0.198
NCS HS11709A-5	Stainless Steel (Set of 6 only)	0.224	0.154	1.92	0.0057	0.0045	7.65	22.77	0.809	0.014	0.131	0.015	0.03	0.0003	0.0027	0.774	0.432
NCS HS11709A-6	Stainless Steel (Set of 6 only)	0.027	1.06	0.595	0.057	0.042	24.4	7.34	0.053	0.326	0.031	0.174	0.0066	0.0002	0.042	0.17	0.078
NCS HS11709A-7	Stainless Steel (Set of 6 only)	0.084	0.765	1.31	0.039	0.025	17.57	8.72	0.973	0.405	0.265	0.041	0.016	0.00017	0.018	0.336	0.873

Code		Size	Type
NCS HS11709A-1		Ø 38x30 mm	CRM
NCS HS11709A-2		Ø 38x30 mm	CRM
NCS HS11709A-3		Ø 38x30 mm	CRM
NCS HS11709A-4		Ø 38x30 mm	CRM
NCS HS11709A-5		Ø 38x30 mm	CRM
NCS HS11709A-6		Ø 38x30 mm	CRM
NCS HS11709A-7		Ø 38x30 mm	CRM

		Analyte - Measured Values														
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	As	N	Nb
NCS HS11721-1	Stainless Steel (Set of 7 only)	0.583	1.1	1.47	0.033	0.032	8.55	1.98	1.86	0.321	0.329	0.289	0.248	0.0027	0.0084	0.55
NCS HS11721-2	Stainless Steel (Set of 7 only)	0.371	0.958	1.17	0.03	0.053	10.08	1.43	0.503	0.279	0.298	0.276	0.196	0.0051	0.0081	0.763
NCS HS11721-3	Stainless Steel (Set of 7 only)	0.189	0.76	0.882	0.019	0.021	2.09	0.638	0.734	0.217	0.189	0.213	0.091	0.017	0.015	0.387
NCS HS11721-4	Stainless Steel (Set of 7 only)	0.093	0.506	0.531	0.029	0.026	17.43	0.632	0.089	0.169	0.241	0.176	0.124	0.022	0.023	0.291
NCS HS11721-5	Stainless Steel (Set of 7 only)	0.052	0.584	0.675	0.022	0.027	21.49	1.01	0.263	0.12	0.142	0.126	0.026	0.013	0.037	0.137
NCS HS11721-6	Stainless Steel (Set of 7 only)	0.0021	0.301	0.366	0.011	0.014	26.29	0.37	1.03	0.072	0.099	0.074	0.0065	0.024	0.043	0.092
NCS HS11721-7	Stainless Steel (Set of 7 only)	0.0014	0.117	0.198	0.0064	0.0055	28.38	0.04	1.57	0.0045	0.016	0.0085	0.0026	0.036	0.01	0.009

	Analyte - Measured Values (continued)					
Code	Pb	Sn	Ti	Size	Type
NCS HS11721-1	(0.0002)	0.0042	0.463	Ø 38x30 mm	CRM
NCS HS11721-2	0.00037	0.01	0.694	Ø 38x30 mm	CRM
NCS HS11721-3	0.0009	0.039	0.369	Ø 38x30 mm	CRM
NCS HS11721-4	(0.0002)	0.034	0.288	Ø 38x30 mm	CRM
NCS HS11721-5	0.0007	0.026	0.141	Ø 38x30 mm	CRM
NCS HS11721-6	0.0007	0.017	0.092	Ø 38x30 mm	CRM
NCS HS11721-7	0.0021	0.051	0.0053	Ø 38x30 mm	CRM

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NCS - Austenitic Steel (Set)

		Analyte - Measured Values															
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Al	Ce	B	Ti	W	Zr	Size	Type
NCS HS29708-1	Ni-W-Steel GH915 just as set of 5	0.066	0.298	0.17	(0.006)	(0.012)	12.46	43.5	1.54	2.2	0.0054	0.023	4.34	3.81	(0.036)	Ø 35x48 mm	CRM
NCS HS29708-2	Ni-W-Steel GH915 just as set of 5	0.082	0.502	0.061	(0.012)	(0.003)	11.56	44.41	1.22	2.14	0.053	(0.034)	4.04	4.14	(0.026)	Ø 35x48 mm	CRM
NCS HS29708-3	Ni-W-Steel GH915 just as set of 5	0.102	0.543	0.016	(0.018)	(0.002)	10.14	45.6	0.925	2.75	0.066	0.044	3.68	4.43	0.017	Ø 35x48 mm	CRM
NCS HS29708-4	Ni-W-Steel GH915 just as set of 5	0.041	0.123	0.415	(0.001)	(0.007)	14.01	42.05	1.53	1.85		0.014	4.8	3.41	(0.015)	Ø 35x48 mm	CRM
NCS HS29708-5	Ni-W-Steel GH915 just as set of 5	0.106	0.071	0.564	(0.001)	(0.014)	12.08	44.01	2.02	2.79			3.79	4.62		Ø 35x48 mm	CRM

SPL - Austenitic Steel

		Analyte - Measured Values															
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	As	B	Ca	N
SPL-CM-18A	Alloyed Steel	0.143	0.903	1.792	0.0182	0.0119	20.59		2.282	0.097	0.113		0.0344				0.0848
SPL-CM-19A	Alloyed Steel	0.361	1.588	0.783	0.044	0.0182	13.12		1.023	0.222	1.235		0.0788		(0.091)	(0.0036)	(0.021)
SPL-SL-2A-10MM	Alloy steel QCM	0.015	0.64	1.84	0.025	0.027	16.9	11	2.03	0.5	0.075	0.09	0.005	0.008	0.002		0.04
SPL-SL-2A-25MM	Alloy steel QCM	0.015	0.64	1.84	0.025	0.027	16.9	11	2.03	0.5	0.075	0.09	0.005	0.008	0.002		0.04
SPL-SL-3A-10MM	Alloy steel QCM	0.043	0.36	1.73	0.024	0.002	24.6	19.6	0.38	0.22	0.066	0.06	0.007		0.002		0.065
SPL-SL-3A-25MM	Alloy steel QCM	0.043	0.36	1.73	0.024	0.002	24.6	19.6	0.38	0.22	0.066	0.06	0.007		0.002		0.065
SPL-SP-3B-10MM	Special steel QCM	0.27	0.23	0.29	0.023	0.008	15.1	5.65	0.24	0.62	0.1	0.02	0.08		0.88		
SPL-SP-3B-25MM	Special steel QCM	0.27	0.23	0.29	0.023	0.008	15.1	5.65	0.24	0.62	0.1	0.02	0.08		0.88		
SPL-SP-3C	Special steel RM, Boron	0.30	0.84	0.43	0.026	0.011	16.42	5.31	0.26	0.185	0.19	0.041	0.095	(0.03)	1.67		
SPL-SP-3D	Special steel RM, Boron	0.171	0.71	0.34	0.021	0.015	16.44	5.36	0.25	0.73	0.11	0.033	0.037	(0.03)	2.45		

	Analyte - Measured Values (continued)							
Code	Nb	Pb	Sn	Ti	W		Size	Type
SPL-CM-18A	0.56	0.8	0.012	1.66	0.09		Ø 37x25 mm	RM
SPL-CM-19A	0.091		0.0283	0.254	0.311		Ø 37x25 mm	RM
SPL-SL-2A-10MM			0.01	0.06	0.03		Ø 35-43x10 mm	RM
SPL-SL-2A-25MM			0.01	0.06	0.03		Ø 35-43x25 mm	RM
SPL-SL-3A-10MM	0.013		0.006	0.003	0.03		Ø 35-43x10 mm	RM
SPL-SL-3A-25MM	0.013		0.006	0.003	0.03		Ø 35-43x25 mm	RM
SPL-SP-3B-10MM			0.01	0.13	0.12		Ø 35-43x10 mm	RM
SPL-SP-3B-25MM			0.01	0.13	0.12		Ø 35-43x25 mm	RM
SPL-SP-3C	(0.04)		(0.02)	0.17	0.12		Ø 35-43x25 mm	RM
SPL-SP-3D	(0.04)		(0.04)	0.088	0.12		Ø 35-43x25 mm	RM

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IMZ - Austenitic Steel

		Analyte - Measured Values																
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	As	N	Nb	Pb	Sn
IMZ-152	High Alloy Steel	0.065	0.52	1.42	0.01	0.0025	18.04	9.48	0.017	0.061	0.03							
IMZ-164	High Alloy Steel	0.1	0.82	1.77	0.019	0.002	20.96	6.75	3.48	0.26	0.053	0.035	0.04	(0.005)	0.249	0.049	(0.002)	(0.003)
IMZ-165	High Alloy Steel	0.082	1.42	0.98	0.017	0.007	23.28	19.01	0.025	0.04	0.042	0.029	0.038	(0.003)	0.105		(0.001)	0.003
IMZ-166A	High Alloy Steel	0.108	2.51	1.99	0.019	0.005	25.53	21.93	(0.025)	0.025	0.038	0.03	0.036	(0.0026)	0.077			(0.0035)

	Analyte - Measured Values (continued)				
Code	Ti	W		Size	Type
IMZ-152				Ø 40x40 mm	CRM
IMZ-164	(0.003)	(0.025)		Ø 40x40 mm	CRM
IMZ-165	(0.002)			Ø 40x40 mm	CRM
IMZ-166A	0.003			Ø 40x40 mm	CRM

HRT - Austenitic Steel

		Analyte - Measured Values													
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	B	N	Nb
HR-FE 2000 H	High Alloy Steel	0.018	0.36	2.02	0.022	0.003	0.002215	0.00598	0.000327	0.15	0.042	0.048	0.0013	0.2	0.01
HR-FE2009 H	Stainless steel	0.035	0.35	0.78	0.034	0.003	12.83	3.89	0.42	0.08	0.043				
HR-FE2010 H	High Alloy Steel	0.18	0.39	0.6	0.024	0.004	15.95	1.94	0.13	0.08	0.044	0.023			
HR-FE2012 H	High Alloy Steel	0.37	0.42	0.41	0.019	0.002	5.13	0.2	2.78	0.07	0.42				0.007
HR-FE 2013 H	High Alloy Steel	0.026	0.38	0.61	0.022	0.005	0.002571	0.00062	0.000363	0.13	0.05			0.28	
HR-FE2014 H	High Alloy Steel	0.027	0.39	1.91	0.023	0.002	17.16	9.92	0.41	0.25				0.018	
HR-FE2015 H	High Alloy Steel	0.19	0.37	0.52	0.021	0.002	12.87	0.25	0.07	0.07	0.05			0.045	
HR-FE2016 H	High Alloy Steel	0.011	0.35	1.83	0.023	0.007	16.85	11.33	2.03	0.21	0.061			0.073	

	Analyte - Measured Values (continued)				
Code	Ti	W		Size	Type
HR-FE 2000 H	0.005	0.063		Ø 40x20 mm	RM
HR-FE2009 H		0.058		Ø 40x40 mm	RM
HR-FE2010 H		0.024		Ø 35x20 mm	RM
HR-FE2012 H				Ø 40x20 mm	RM
HR-FE 2013 H				Ø 40x20 mm	RM
HR-FE2014 H	0.31			Ø 35x20 mm	RM
HR-FE2015 H				Ø 35x20 mm	RM
HR-FE2016 H				Ø 30x20 mm	RM

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MQ (DSZU) - Austenitic Steel

		Analyte - Measured Values																
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Al	As	B	Ca	N	Pb	Sb
MQ-C015	Stainless steel	0.087	0.214	0.42	0.0118	0.059	15.36	12.15	0.89	0.07	0.021	(0.008)			0.0017	0.02		
MQ-C016	Stainless steel	0.281	1.16	3.26	0.0192	0.0174	21.9	7.47	0.52	0.054	0.036	0.007			0.0004	0.01		
MQ-C017	Stainless steel	0.053	0.61	2.03	0.04	0.0298	19.21	10.85	2.36	0.36	0.084	0.28			0.0031	0.018		
MQ-C018	Stainless steel	0.125	0.53	1.09	0.0268	0.0099	17.54	9.33	0.189	0.163	0.048	0.086			0.0003	0.009		
MQ-C31	Stainless steel	(0.1)	(0.8)	(1.4)	(0.03)		(17)	(10)	(0.8)	(0.2)			0.012	(0.02)	(0.008)	(0.04)	0.0017	0.007
MQ-C32	Stainless steel	(0.1)	(0.6)	(1.2)	(0.03)		(17)	(11)	(1)	(0.2)			0.008	(0.02)	(0.005)	(0.04)	0.0005	0.0015
MQ-C33	Stainless steel	(0.1)	(1)	(1.1)	(0.03)		(17)	(16)	(1.2)	(0.3)			0.021	(0.02)	(0.0004)	(0.14)	0.0046	0.015
MQ-C34	Stainless steel	(0.1)	(0.3)	(1)	(0.03)		(16)	(12)	(1.1)	(0.4)			0.042	(0.005)	(0.001)	(0.11)	0.015	0.033
MQ-C35	Stainless steel	(0.1)	(0.3)	(1.1)	(0.03)		(16)	(11)	(1.4)	(0.5)			0.064	(0.002)	(0.001)	(0.02)	0.086	0.058

	Analyte - Measured Values (continued)							
Code	Sn	Ti	W	Zn	ZnO		Size	Type
MQ-C015		0.177	0.023				Ø 40x25 mm	CRM
MQ-C016		0.72	0.014				Ø 40x25 mm	CRM
MQ-C017		0.32	0.2				Ø 40x25 mm	CRM
MQ-C018		0.54	0.066				Ø 40x25 mm	CRM
MQ-C31	0.01	(0.05)		0.028			Ø 40x20 mm	CRM
MQ-C32	0.006	(0.05)			0.015		Ø 40x20 mm	CRM
MQ-C33	0.02	(0.05)			0.019		Ø 40x20 mm	CRM
MQ-C34	0.039	(0.05)			0.041		Ø 40x20 mm	CRM
MQ-C35	0.064	(0.05)			0.058		Ø 40x20 mm	CRM

CPT - Austenitic Steel

		Analyte - Measured Values																
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Ag	Nb	Pb	Sn	Size	Type
CPT-304	Stainless Steel aust.	0.063	0.56	0.78	0.026	0.023	18.57	9.6	0.33	0.34	0.037	0.2	0.0007	0.043	<0.001	0.017	Ø 35x20 mm	RM
CPT-305	Stainless Steel aust.	0.067	0.55	1.85	0.025	0.022	18.58	11.95	0.45	0.29	0.078	0.22					Ø 35x20 mm	RM
CPT-316	Stainless Steel aust.	0.061	0.69	1.64	0.029	0.023	17.6	12.61	2.45	0.25	0.051	0.14	0.0005		0.001	0.006	Ø 35x20 mm	RM
CPT-X52353	Stainless Steel, aust.	0.06	0.56	0.9	0.022	0.008	17.46	11.94	0.34	0.28	0.053	0.28					Ø 35x20 mm	RM
CPT-X63137	Stainless Steel, aust.	0.067	0.55	1.86	0.025	0.022	18.57	11.95	0.45	0.28	0.078	0.22					Ø 35x20 mm	RM

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HB - Austenitic Steel

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	B	Nb	Ti
HB MW15	Stainless Steel aust.	0.315	1.96	0.69		0.0097	11.87	7.3								
HB MW15(30MM)	Stainless Steel, aust.	0.315	1.96	0.69		0.0097	11.87	7.3								
HB MW26	Stainless Steel	0.47	0.73	0.6	0.021	(0.012)	15.56	14.94	0.41	0.056	0.4					
HB MW26(30MM)	Stainless Steel	0.47	0.73	0.6	0.021	(0.012)	15.56	14.94	0.41	0.056	0.4					
HB MW27	Stainless Steel aust.	0.23	1.95	1.75	0.022	0.009	15.57	35.23								
HB MW28	Stainless Steel aust.	0.03	0.75	1.56	0.013	0.0169	16.24	14.26	2.25					0.0049		
HB MW29	Stainless Steel aust.	0.054	0.93	1.6	0.011	0.017	17.59	16.1	3.7	0.1						0.47
HB MW29(30MM)	Stainless Steel aust.	0.054	0.93	1.6	0.011	0.017	17.59	16.1	3.7	0.1						0.47
HB MW30	Stainless Steel aust.	0.2	0.93	1.56	0.017	0.013	18.71	12.6							1.02	
HB MW30(30MM)	Stainless Steel aust.	0.2	0.93	1.56	0.017	0.013	18.71	12.6							1.02	
HB MW31	Stainless Steel aust.	0.028	0.3	1.54	0.008	0.013	17.56	11						(0.0047)		
HB MW31(30MM)	Stainless Steel aust.	0.028	0.3	1.54	0.008	0.013	17.56	11						(0.0047)		
HB MW33	Stainless Steel aust.	0.099	0.75	1.26	0.033	(0.011)	19.57	8.31					0.097			0.62
HB MW33(30MM)	Stainless Steel aust.	0.099	0.75	1.26	0.033	(0.011)	19.57	8.31					0.097			0.62
HB MW34	Stainless Steel aust.	0.11	0.62	1.72	(0.015)	0.012	20.82	9.08	1.57							0.49
HB MW36	Stainless Steel aust.	0.06	0.86	2.03	0.013	0.009	25.37	29.04	3.1	3	0.047	0.033				0.86
HB MW37	Stainless Steel aust.	0.25	1.1	1.55	0.028	0.012	25	12.26	0.34	0.05	0.18					
HB MW38	Stainless Steel aust.	0.21	3.16	1.6	0.024	(0.01)	26.64	20.25								

Analyte - Measured Values (continued)

Code	W	Zr		Size	Type
HB MW15				Ø 40x12 mm	RM
HB MW15(30MM)				Ø 40x30 mm	RM
HB MW26	2.07			Ø 40x12 mm	RM
HB MW26(30MM)	2.07			Ø 40x30 mm	RM
HB MW27				Ø 40x12 mm	RM
HB MW28		0.0046		Ø 40x12 mm	RM
HB MW29				Ø 40x12 mm	RM
HB MW29(30MM)				Ø 40x30 mm	RM
HB MW30				Ø 40x12 mm	RM
HB MW30(30MM)				Ø 40x30 mm	RM
HB MW31				Ø 40x12 mm	RM
HB MW31(30MM)				Ø 40x30 mm	RM
HB MW33				Ø 40x12 mm	RM
HB MW33(30MM)				Ø 40x30 mm	RM
HB MW34	0.49			Ø 40x12 mm	RM
HB MW36				Ø 40x12 mm	RM
HB MW37	0.33			Ø 40x12 mm	RM
HB MW38				Ø 40x12 mm	RM

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VASKUT - Austenitic Steel

		Analyte - Measured Values												
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	Nb	Ti	Size	Type
VASKUT-S15	Stainless Steel aust.	0.043	0.26	0.38	0.02	0.013	16.7	3.9	2.46	1.54	0.64		Ø 32-35x19 mm	CRM
VASKUT-S19	Stainless Steel aust.	0.26	2.32	0.32	0.012	0.021	7	12.8	0.11	0.19	0.81	0.048	Ø 32-35x19 mm	CRM
VASKUT-S20	Stainless Steel aust.	0.097	1.8	1.5	0.011	0.025	2.06	18.2	3.15	0.44	1.22	0.01	Ø 32-35x19 mm	CRM
VASKUT-S21	Stainless Steel aust.	0.37	1.26	0.19	0.017	0.021	3.99	22.3	4.12	0.11		0.5	Ø 32-35x19 mm	CRM
VASKUT-S22	Stainless Steel aust.	0.014	0.61	0.34	0.009	0.008	1	28.2	0.82	0.02		0.13	Ø 32-35x19 mm	CRM
VASKUT-S24	Stainless Steel aust.	0.65	0.77	0.94	0.062	0.036	10.28	9.19	0.41	0.12	1.65	0.27	Ø 32-35x19 mm	CRM
VASKUT-S25	Stainless Steel aust.	0.067	1.49	1.9	0.045	0.015	15.6	13.8	1.77	0.07	0.07	0.46	Ø 32-35x19 mm	CRM
VASKUT-S26	Stainless Steel aust.	0.076	0.67	0.99	0.027	0.026	18.9	3.31	2.59	0.14	0.07	0.11	Ø 30-35x18 mm	CRM

Old Skoda Standard - Austenitic Steel

		Analyte - Measured Values																
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	As	B	Bi	Nb	Pb
SK S02	Stainless Steel, aust.	0.22	0.62	1.24	0.019	0.01	11.8	0.77	0.28	0.086	0.086	0.028	0.01	0.007		0.001		
SK S05	Stainless Steel, aust.	0.058	0.25	0.29	0.018	0.032	12.6	5.68	0.44	0.28	0.094	0.027	(0.01)	(0.007)	0	0	0.075	0.0005
SK S07	Stainless Steel, aust.	0.97	1.47	0.96	(0.003)	0.011	7.88	0.53	0.6	0.09	(0.01)	(0.019)	(0.01)	0.005	0	0	0	0
SK S10	Stainless Steel, aust.	0.32	0.26	0.45	0.016	0.011	17.3	3.11	0.02	0.14	0.033	0.032	0.01	0.007	0.0005			0.009

	Analyte - Measured Values (continued)						
Code	Sb	Sn	Ti	W	Zn	Size	Type
SK S02	0.002	0.006	0.005	0.31	0.001	Ø 40x15 mm	RM
SK S05	(0.003)	(0.006)	0	0.15	(0.001)	Ø 40x15 mm	RM
SK S07	(0.002)	(0.007)	0.002	1.07	(0.001)	Ø 40x15 mm	RM
SK S10	0.062	0.005	0.01	0.02	0.008	Ø 40x15 mm	RM

NILAB - Austenitic Steel

		Analyte - Measured Values														
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	N	Nb	Size	Type
NILAB-500HA(D)	Steel, high alloyed	0.041	0.72	1.541	0.024	0.012	16.93	11	2.73	0.182	0.074	0.139	0.1154	0.023	Ø 38x20mm	CRM

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ARMI - Duplex Steel

		Analyte - Measured Values													
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Ce	Mg
IARM-212D-X	Stainless Steel, Alloy 2205 / UNS S32205	0.019	0.34	1.21	0.024	0.0007	22.6	5.53	3.27	0.125	0.063	0.049	(0.005)		
IARM-239B-X	Stainless Steel, Alloy 255 / UNS S32550	0.013	0.39	0.86	0.025	0.0005	25.9	5.78	3.42	1.48	0.099	0.048	0.008		
IARM-239C-G	Stainless & High Temperature Steel, Alloy 255 / S32550	0.017	0.38	0.87	0.023	0.001	25.8	6.14	3.33	1.49	0.083	0.039	0.007	(<0.005)	(<0.03)
IARM-239C-X	Stainless & High Temperature Steel, Alloy 255 / S32550	0.017	0.38	0.87	0.023	0.001	25.8	6.14	3.33	1.49	0.083	0.039	0.007	(<0.005)	(<0.03)
IARM-292A-G	Stainless Steel, LDX 2101 / UNS S32101	0.03	0.75	5	0.018	0.001	21.35	1.47	0.097	0.29	0.084	0.031	0.01		
IARM-292A-X	Stainless Steel, LDX 2101 / UNS S32101	0.03	0.75	5	0.018	0.001	21.35	1.47	0.097	0.29	0.084	0.031	0.01		
IARM-319A-X	Stainless Steel, Zeron 100 / UNS S32760	0.015	0.23	0.53	0.024	0.0006	25.2	6.92	3.56	0.51	0.076	0.051	0.01		

	Analyte - Measured Values (continued)																
Code	As	B	Ca	N	Nb	Pb	Sb	Se	Sn	Ta	Ti	W	Zn	Zr	Size	Form	Type
IARM-212D-X	(0.01)	0.001	(0.001)	0.182	(0.009)	(0.001)			(0.003)	(0.003)	(0.002)	0.014		0.004	Ø 38x3 mm	W	CRM
IARM-239B-X	(0.003)	0.0008		0.25	0.024	(0.001)			0.003	(0.004)	0.002	0.106		0.002	Ø 38x3 mm	W	Final
IARM-239C-G	(0.004)	0.0014	(<0.004)	0.228	0.006	(0.004)	(0.0004)	(<0.03)	0.003	(0.004)	0.004	0.05	(<0.03)	(0.003)	Ø 38x19 mm		prov.
IARM-239C-X	(0.004)	0.0014	(<0.004)	0.228	0.006	(0.004)	(0.0004)	(<0.03)	0.003	(0.004)	0.004	0.05	(<0.03)	(0.003)	Ø 38x3 mm		prov.
IARM-292A-G		0.0011		0.245	0.009				0.004	(0.006)	0.005	0.01			Ø 38x19 mm	W	CRM
IARM-292A-X		0.0011		0.245	0.009				0.004	(0.006)	0.005	0.01			Ø 38x3 mm	W	CRM
IARM-319A-X	(0.004)	0.002		0.24	0.006				0.0055	(0.002)	0.003	0.52		0.002	Ø 38x3 mm	W	CRM

ECRM / NIST / BS - Duplex Steel

		Analyte - Measured Values														
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Mg	As	B
ECRM-S 298-1-D	Duplex stainless steel (similar to EN 1.4410) - disc	0.0146	0.262	0.398	0.0198	0.0006	24.72	7.056	3.799	0.201	0.0607	0.055	0.0285			0.0021
NIST-C2401	HA Steel (ACI-C-4M-Cu)	0.062	0.74	1.03	0.025	0.027	25.1	5.46	2.13	3.17	0.2	0.19				
BS-2205	2205 Stainless Steel	0.0199	0.564	1.029	0.0227	0.0005	22.92	5.27	3.26	0.196	0.0560	0.041	0.0080	(0.0004)	0.0059	0.0016

	Analyte - Measured Values (continued)												
Code	Ca	Fe	N	Nb	Pb	Sb	Sn	Ti	W	Zr		Size	Type
ECRM-S 298-1-D		63.38	0.263		0.00008			0.0014				Ø 38x25 mm	CRM
NIST-C2401												Ø 32x19 mm	CRM
BS-2205	0.0014	(67.0)	0.169	0.0052	(0.0001)	0.0010	0.0050	0.0019	0.0309	(0.006)		Ø 38x19 mm	CRM

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BAS - Duplex Steel

		Analyte - Measured Values															
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	As	B	Fe	N
BAS-SUS F-025	Duplex Stainless Steel	0.02	0.53	0.61	0.02	”0.005”	25.8	7.2	3.4	0.63	0.06	0.05	0.005	0.005	0.002	60.7	0.25
BAS-SUS F-075	Duplex Stainless Steel	0.02	0.53	0.61	0.02	<0.005	25.8	7.2	3.4	0.63	0.06	0.05	0.005	0.005	0.002	60.7	0.25
BAS-SUS F-150	Duplex Stainless Steel	0.02	0.53	0.61	0.02	”0.005”	25.8	7.2	3.4	0.63	0.06	0.05	0.005	0.005	0.002	60.7	0.25

	Analyte - Measured Values (continued)						
Code	Nb	Sn	Ti	W		Size	Type
BAS-SUS F-025	0.005	<0.005	<0.005	0.63		Ø 42x25 mm	SUS
BAS-SUS F-075	0.005	<0.005	<0.005	0.63		Ø 42x75 mm	SUS
BAS-SUS F-150	0.005	<0.005	<0.005	0.63		Ø 42x150 mm	SUS

MBH - Duplex Steel

		Analyte - Measured Values																
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	N	Nb	W	Size	Form	Type
MBH-13X NSA8 A	High Nitrogen Stainless Steels	0.0240	(0.4)	0.656	0.0216	0.0008	25.93	6.29	3.60	0.903	0.060	0.0374	0.239	0.004	0.586	Ø 44x15 mm	W	CRM
MBH-13X NSA9 A	High Nitrogen Stainless Steels	0.019	0.469	1.592	0.0248	0.0007	22.57	5.44	22.57	0.240	0.068	0.012	0.156	0.012	0.024	Ø 40x15 mm	W	CRM

IMZ - Duplex Steel

		Analyte - Measured Values															
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	As	N	Nb	Pb
IMZ-163A	High Alloy Steel	0.058	0.39	1.38	0.018	0.01	22.62	4.59	2.4	0.061	0.029	(0.02)	0.018	(0.0035)	0.221	0.13	(0.001)
IMZ-164	High Alloy Steel	0.1	0.82	1.77	0.019	0.002	20.96	6.75	3.48	0.26	0.053	0.035	0.04	(0.005)	0.249	0.049	(0.002)

	Analyte - Measured Values (continued)					
Code	Sn	Ti	W		Size	Type
IMZ-163A	(0.003)	(0.002)	(0.016)		Ø 40x40 mm	CRM
IMZ-164	(0.003)	(0.003)	(0.025)		Ø 40x40 mm	CRM

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ARMI - Manganese Stainless Steel

		Analyte - Measured Values													
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Mg	As
IARM-17D-G	Stainless Steel, Nitronic 50 / UNS S20910	0.041	0.416	4.15	0.026	0.0018	21.06	11.83	1.52	0.412	0.118	0.23	0.0032	(0.0003)	0.005
IARM-17D-X	Stainless Steel, Nitronic 50 / UNS S20910	0.041	0.416	4.15	0.026	0.0018	21.06	11.83	1.52	0.412	0.118	0.23	0.0032	(0.0003)	0.005
IARM-19C-G	Stainless Steel, Nitronic 40 / UNS S21900	0.012	0.31	9.02	0.027	0.0007	19.51	6.4	0.4	0.45	0.09	0.087	0.007		(0.004)
IARM-19C-X	Stainless Steel, Nitronic 40 / UNS S21900	0.012	0.31	9.02	0.027	0.0007	19.51	6.4	0.4	0.45	0.09	0.087	0.007		(0.004)
IARM-214A-G	Stainless Steel, NMS-100	0.018	1	18.3	0.033	0.002	12.36	2.33	0.44	0.36	0.04	0.021	(0.002)		
IARM-214A-X	Stainless Steel, NMS-100	0.018	1	18.3	0.033	0.002	12.36	2.33	0.44	0.36	0.04	0.021	(0.002)		
IARM-292A-G	Stainless Steel, LDX 2101 / UNS S32101	0.03	0.75	5	0.018	0.001	21.35	1.47	0.097	0.29	0.084	0.031	0.01		
IARM-292A-X	Stainless Steel, LDX 2101 / UNS S32101	0.03	0.75	5	0.018	0.001	21.35	1.47	0.097	0.29	0.084	0.031	0.01		
IARM-294A-G	Stainless Steel, NMS J38	0.017	0.43	21.6	0.026	0.0028	19.7	2.9	1.8	0.34	0.046	0.021	(0.01)		
IARM-294A-X	Stainless Steel, NMS J38	0.017	0.43	21.6	0.026	0.0028	19.7	2.9	1.8	0.34	0.046	0.021	(0.01)		
IARM-295A-G	Stainless Steel, NMS 140	0.021	0.36	19.7	0.028	0.0041	18	1.84	0.97	0.113	0.046	0.021	(0.01)		
IARM-295A-X	Stainless Steel, NMS 140	0.021	0.36	19.7	0.028	0.0041	18	1.84	0.97	0.113	0.046	0.021	(0.01)		

	Analyte - Measured Values (continued)															
Code	B	Ca	N	Nb	Pb	Sb	Se	Sn	Ta	Ti	W	Zn	Zr	Size	Form	Type
IARM-17D-G	0.001	(0.002)	0.311	0.14	(0.0002)	(0.001)	(0.001)	0.0044	0.003	0.010	0.056	(0.0004)	0.002	Ø 38x19 mm		CRM
IARM-17D-X	0.001	(0.002)	0.311	0.14	(0.0002)	(0.001)	(0.001)	0.0044	0.003	0.010	0.056	(0.0004)	0.002	Ø 38x3 mm		CRM
IARM-19C-G	0.0011		0.32	0.028				0.0061	0.005	0.003	0.037			Ø 38x19 mm	W	CRM
IARM-19C-X	0.0011		0.32	0.028				0.0061	0.005	0.003	0.037			Ø 38x3 mm	W	CRM
IARM-214A-G	(0.001)		0.27	0.23				0.008		0.002	0.02			Ø 38x19 mm	W	CRM
IARM-214A-X	(0.001)		0.27	0.23				0.008		0.002	0.02			Ø 38x3 mm	W	CRM
IARM-292A-G	0.0011		0.245	0.009				0.004	(0.006)	0.005	0.01			Ø 38x19 mm	W	CRM
IARM-292A-X	0.0011		0.245	0.009				0.004	(0.006)	0.005	0.01			Ø 38x3 mm	W	CRM
IARM-294A-G	(0.003)		0.78	0.03				(0.006)	(0.003)	(0.002)	0.01		(0.002)	Ø 38x19 mm	W	CRM
IARM-294A-X	(0.003)		0.78	0.03				(0.006)	(0.003)	(0.002)	0.01		(0.002)	Ø 38x3 mm	W	CRM
IARM-295A-G	0.002		0.62	0.018				0.004		0.0019	0.016		(0.001)	Ø 38x19 mm	W	CRM
IARM-295A-X	0.002		0.62	0.018				0.004		0.0019	0.016		(0.001)	Ø 38x3 mm	W	CRM

ECRM - Manganese Stainless Steel

		Analyte - Measured Values													
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	As	Ca
ECRM-D 294-1-D	Manganese steel, material-no. 1.3816 - disc	0.0657	0.283	18.68	0.0271	0.00031	17.98	0.429	0.0861	0.0242	0.0694	0.0288	0.0095	0.0037	0.00026

	Analyte - Measured Values (continued)									
Code	N	Nb	Sb	Sn	Ti	W	Zr		Size	Type
ECRM-D 294-1-D	0.566	0.00117	0.00053	0.0014	0.0008	0.00114	0.0001		Ø 40x20 mm	CRM

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MBH - Manganese Stainless Steel

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	B	N
MBH-13X 21800 A	High nitrogen stainless steel	0.0765	4.03	8	0.032	0.0011	16.81	8.32	0.325	0.431	0.0619	0.0943	0.012	0.001	0.125
MBH-13X NSA4 B	High Nitrogen Stainless Steels	0.115	0.519	5.55	0.0302	0.0095	23.85	17.62	4.32	0.595			0.0048		0.446
MBH-13X NSA5 A	High Nitrogen Stainless Steels	0.063	0.281	4.27	0.010	0.0212	20.73	9.52	2.32	0.098			0.012		0.340
MBH-13X NSA10 A	High Nitrogen Stainless Steels	0.016	0.375	5.23	0.0207	0.0006	20.69	12.96	2.636	0.175	0.151	0.061		0.0029	0.343
MBH-13X NSC1 P	High nitrogen stainless steel	0.316	0.788	6.53		0.0097	18.76	5.06	0.196	0.391	0.501				0.0877
MBH-13X NSC2 P	Nitrogen Stainless Steels	0.55	0.997	4		0.01	22	4	0.8	1.0	0.3				0.3
MBH-13X NSC3 Z	High Nitrogen Stainless Steel	0.895	1.28	10.15		0.011	23.02	2.96	0.06	0.1	0.11		0.105		0.498
MBH-13X NSC4 F	High Nitrogen Stainless Steel	0.513	1.52	7.97		0.0071	32.58	7.03	1.39	0.162	0.219	0.218	0.119		0.942
MBH-13X NSC5 B	High nitrogen stainless steel	0.558	1.19	2.22		0.0155	22.1	4.34	0.009	0.787	0.0461		0.21		0.296
MBH-13X NSC6 A	High Nitrogen Stainless Steels	0.0266	0.523	8.85	0.0049	0.0055	20.47	6.52	0.002	0.0064	0.0052		0.009		0.235
MBH-13X NSC7 A	High Nitrogen Stainless Steels	0.410	0.803	3.80	0.0155	0.0091	23.63	7.41	0.448	0.144	0.3	0.308	0.1		0.337

Analyte - Measured Values (continued)

Code	Nb	W		Size	Form	Type
MBH-13X 21800 A	0.007			Ø 38x15 mm	W	CRM
MBH-13X NSA4 B	0.154			Ø 40x17 mm	CC	prov.
MBH-13X NSA5 A	0.574			Ø 40x17 mm	CC	CRM
MBH-13X NSA10 A	0.142	0.061		Ø 38x17 mm	W	CRM
MBH-13X NSC1 P	1.499	0.1		Ø 40x15 mm	CC	CRM
MBH-13X NSC2 P	2.2	0.06		Ø 40x17 mm	CC	CRM
MBH-13X NSC3 Z	2.81			Ø 40x15 mm	CC	CRM
MBH-13X NSC4 F	2.41	0.204		Ø 40x15 mm	CC	prov.
MBH-13X NSC5 B	2.38			Ø 40x15 mm	CC	CRM
MBH-13X NSC6 A				Ø 40x13 mm	HIP	CRM
MBH-13X NSC7 A	2.2	0.06		Ø 40x13 mm	CC	CRM

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BS - Manganese Stainless Steel

		Analyte - Measured Values										
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co
BS-180A	Nitronic 50 Stainless Steel	0.018	0.32	5.05	0.012	0.001	21.09	13.19	2.04	0.067	0.2	0.039
BS-180B	Nitronic 50 Stainless Steel	0.02	0.46	4.6	0.018	0.001	21.4	11.9	2.2	0.20	0.15	0.10
BS-181A	Stainless Steel	0.071	4.03	8.16	0.019	0.001	16.52	8.15	0.21	0.18	0.094	0.072
BS-181B	High Manganese Stainless Steel (Nitronic 60) S21800	0.07	3.94	8.07	0.021	0.0009	16.17	8.18	0.173	0.206	0.044	0.044
BS-190	Nitronic 40 Stainless Steel	0.022	0.46	9.72	0.015	0.001	19.57	6.74	0.15	0.072	0.11	0.044
BS-191	Stainless Steel - Manganese	0.098	3.66	5.71	0.024	0.023	16.33	5.34	0.36	0.33	0.083	0.11
BS-193	18Cr12Mn Stainless Steel	0.104	0.66	12.11	0.018	0.002	18.48	1.82	0.21	0.088	0.107	0.028

	Analyte - Measured Values (continued)																
Code	Al	Mg	As	B	Ca	Fe	N	Nb	Pb	Sb	Sn	Ta	Ti	W	Zr	Size	Type
BS-180A	0.012			(0.0023)			0.334	0.2			(0.002)		(0.002)	0.02		Ø 31-41x12 mm	RM
BS-180B	0.05	0.005	0.05	0.001	0.005	[58.8]	0.33	0.14	0.005		0.05	0.05	0.05	0.04	0.05	Ø 38x19 mm	CRM
BS-181A	0.022			0.0009			0.148	0.017			0.005		0.007	0.04		Ø 35-41x12 mm	RM
BS-181B	0.0119	(0.0003)	(0.002)	(0.0008)	(0.001)	62.9	0.158	0.026	(0.0005)	(0.0007)	(0.004)		0.0051	0.016	(0.0004)	Ø 38x19 mm	CRM
BS-190	(0.004)			0.0005			0.255	(0.004)			0.003		0.002	0.015		Ø 31-41x12 mm	RM
BS-191	(0.002)			(0.0006)			0.117	0.024			(0.006)	0.002	0.012	0.033		Ø 31-41x12 mm	RM
BS-193	(0.003)			0.0007	0.002		0.37	0.014			0.004		0.003	(0.007)		Ø 34x12 mm	RM

VS - Manganese Stainless Steel

		Analyte - Measured Values														
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Nb	Ti	W	Size	Type
VS-RG19/1	Steel	0.064	0.9	5.63	(0.02)	(0.009)	24.5	17.73	0.166	(0.2)	0.407	0.108	0.14	0.206	Ø 45-50 x 28-32 mm	CRM
VS-RG20/1	Steel	0.064	0.81	15.77	(0.02)	(0.01)	14.35	0.673	0.089	0.265	0.166	0.175	0.093	0.007	Ø 45-50 x 28-32 mm	CRM
VS-RG21/1	Steel	0.169	1.95	6.39	(0.02)	(0.008)	15.53	7.52	0.88	0.17	1.71	0.48	0.18	(0.2)	Ø 45-50 x 28-32 mm	CRM
VS-RG22/1	Steel	0.054	0.63	13.41	(0.02)	(0.008)	13.25	3.94	0.121	0.358	0.125	0.38	0.33	0.137	Ø 45-50 x 28-32 mm	CRM
VS-RG23/1	Steel	0.045	0.49	8.74	(0.02)	(0.004)	18.5	1.98	0.401	0.099	0.69	0.24	0.21	0.3	Ø 45-50 x 28-32 mm	CRM

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Miscellaneous - Manganese Stainless Steel

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	As	Nb	Sn	Ta
NIST-1297	Stainless Steel (SAE 201)	0.066	0.397	7.11	0.038	0.0033	16.69	5.34	0.331	0.442	0.08	0.127					
SPL-SL-5A-10MM	Alloy steel QCM	0.37	0.36	5.8	0.021	0.014	11.7	4.94	4.12	2.9	0.21	0.26	0.035	0.005	0.2	0.004	0.07
SPL-SL-5A-25MM	Alloy steel QCM	0.37	0.36	5.8	0.021	0.014	11.7	4.94	4.12	2.9	0.21	0.26	0.035	0.005	0.2	0.004	0.07

Analyte - Measured Values (continued)

Code	Ti	W	Size	Type
NIST-1297			Ø 32x19 mm	CRM
SPL-SL-5A-10MM	0.004	0.78	Ø 35-43x10 mm	RM
SPL-SL-5A-25MM	0.004	0.78	Ø 35-43x25 mm	RM

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ARMI - Chromium Molybdenum Steel

		Analyte - Measured Values													
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	As	B
IARM-196A-G	Low-Alloy Steel, SPC3-ZH	1.08	0.35	2.4	0.04	0.014	2.35	0.61	0.129	0.25	0.157	0.013	0.015	0.025	0.0017
IARM-299A-G	Low-Alloy Steel, D6-AC / UNS K22925	0.469	0.22	0.7	0.008	0.002	1.03	0.57	0.99	0.1	0.12	0.0054	0.092	0.003	0.0003
IARM-299A-X	Low-Alloy Steel, D6-AC / UNS K22925	0.469	0.22	0.7	0.008	0.002	1.03	0.57	0.99	0.1	0.12	0.0054	0.092	0.003	0.0003

	Analyte - Measured Values (continued)											
Code	Ca	N	Nb	Pb	Sb	Sn	Ti	W	Zr	Size	Form	Type
IARM-196A-G	0.0002	0.0084	0.087	0.001	0.006	0.033	0.014	0.189	0.006	Ø 38x19 mm	W	CRM
IARM-299A-G	(0.001)	0.0028	0.006	(0.001)	(0.002)	0.0055	0.0038	0.01	(0.001)	Ø 38x19 mm	W	CRM
IARM-299A-X	(0.001)	0.0028	0.006	(0.001)	(0.002)	0.0055	0.0038	0.01	(0.001)	Ø 38x3 mm	W	CRM

ECRM - Chromium Molybdenum Steel

		Analyte - Measured Values													
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	As	N
ECRM-D 129-3-D	Nitrided steel 34CrAlNi7 (1.8550) - disc	0.3684	0.2087	0.371	0.011	0.0165	1.702	1.022	0.206	0.0804		0.0148	1.016	0.0049	0.0046
ECRM-F 190-1-D	Low alloyed steel - disc	0.395	0.278	1.28	0.0112	0.0044	2.18	0.934	0.41			0.034			
ECRM-B 195-1-D	Chromium-molybdenum-nickel steel - disc	0.757	0.466	0.571	0.017	0.012	1.56	0.33	0.77	0.036	0.31				0.01

	Analyte - Measured Values (continued)					
Code	Sb	Sn	Ti	Zn	Size	Type
ECRM-D 129-3-D	0.00059	0.0067	0.003	0.003	Ø 39x25 mm	CRM
ECRM-F 190-1-D					Ø 35-39 x 20-35 mm	CRM
ECRM-B 195-1-D					Ø 38x30 mm	CRM

NIST - Chromium Molybdenum Steel

		Analyte - measured Values														
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	As	B	Nb
NIST-1139A	Cast steel (no.2)	0.79	0.8	0.92	0.012	0.013	2.1	0.98	0.51	0.47	0.26					
NIST-1270	LA Stl. Cr-2.3 Mo-1 A 336	0.077	0.247	0.626	0.0065	0.0065	2.34	0.174	0.956	0.114	0.013	0.038				
NIST-1286	low alloy steel HY 80	0.196	0.13	0.152	0.008	0.017	1.53	2.81	0.344	0.043	0.0057	0.116	0.109	0.019	(0.006)	(0.012)
NIST-1772	Tool Steel (S-7)	0.477	0.264	0.61	0.008	0.0031	3.1	0.105	1.39	0.083	0.236					

	Analyte - Measured Values (continued)							
Code	Pb	Sn	Ti	W	Zr	Size	Form	Type
NIST-1139A						32x32x13 mm	C	CRM
NIST-1270						Ø 32x19 mm		CRM
NIST-1286	(0.0002)	0.012	0.04	(0.013)	(0.021)	Ø 32x19 mm		CRM
NIST-1772						Ø 34x19 mm		CRM

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BS - Chromium Molybdenum Steel

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Ce	Mg	As
BS-45A	LOW ALLOY STEEL, Cr-Mo	0.133	0.69	0.46	0.016	0.022	1.16	0.15	0.52	0.17	0.004	0.009	0.032			0.007
BS-45B	F-11 Steel – UNS K11572l, Ø 38mm x 19 mm	0.15	0.58	0.5	0.008	0.017	1.1	0.13	0.6	0.1	0.009	0.009	0.03		<0.005	0.007
BS-46B	Molybdenum Steel F-22, UNS K21590	0.13	0.22	0.47	0.009	0.02		2.30	0.08	1.0	0.13	0.008	0.007	0.02	<0.0005	0.003
BS-47A	F-5 Steel Disc	0.13	0.27	0.44	0.017	0.015	4.22	0.12	0.47	0.11	0.016	0.011	0.015			
BS-47B	F-5 Steel Disc	0.122	0.22	0.39	0.39	0.014	0.022	4.78	0.105	0.45	0.12	0.004	0.018			0.004
BS-48B	K90941, F-9 Cr-Mo-Steel	0.110	0.75	0.365	0.0228	0.0068	8.78	0.165	0.949	0.070	0.033	0.0165	0.0157		(0.0002)	0.0048
BS-53G	E52100 Low Alloy Steel	1.02	0.23	0.35	0.014	0.015	1.53	0.09	0.034	0.16	0.006	0.008	0.019			0.004
BS-55G	Mold Steel P20 / UNS T51620	0.38	0.57	0.85	0.011	0.003	1.8	0.13	0.42	0.11	0.006	0.009	0.012		0.0002	0.006
BS-58E	9310 Low Alloy Steel	0.1	0.29	0.63	0.009	0.002	1.4	3.22	0.11	0.154	0.006	0.013	0.029			0.003
BS-68E	Steel, low alloyed	0.406	0.296	0.56	0.005	0.0004	1.49	0.147	0.322	0.134	0.0031	0.007	1.09		0.0004	(0.003)
BS-1962	LOW ALLOY STEEL, 4140	0.41	0.242	0.94	0.007	0.011	1.05	0.16	0.229	0.224	0.004	0.008	0.018		0.0001	0.007
BS-1982	F22 Steel - Molybdenum	0.128		0.255	0.441	0.012	0.026	2.09	0.197	0.89	0.177	0.003	0.01	0.021		0.007
BS-4150MOD	Steel - Bismuth & Selenium	0.47	0.21	0.9	0.024	0.079	1.01	0.15	0.21	0.19	0.008	0.012	0.012			0.005
BS-9905A	F-91 Steel, UNS K90901	0.113	0.34	0.465	0.0133	0.004	8.75	0.152	0.95	0.091	0.216	0.0136	0.0186		(0.0004)	0.0065
BS-H-13	H-13 tool steel	0.402	0.99	0.386	0.0103	0.0202	5.14	0.109	1.24	0.197	0.98	0.0092	0.0152		0.0002	0.0066
BS-PP20	Calcium in Steel	0.382	0.262	1.41	0.018	0.007	1.94	1	0.212	0.119	0.066	0.0145	0.0132			0.0049

Analyte - Measured Values (continued)

Code	B	Bi	Ca	Fe	N	Nb	Pb	Sb	Sn	Ta	Ti	W	Zn	Zr		Size	Type
BS-45A					0.0081			0.0027	0.011							Ø 35-44x19 mm	RM
BS-45B	<0.005		<0.005	[96.7]	0.007	0.001			0.007		0.002	0.004		0.001		Ø 38x19 mm	CRM
BS-46B	0.003		<0.005	[95.6]	0.010	0.005	0.002		0.007		0.001	<0.005		0.001		Ø 38x19 mm	CRM
BS-47A					0.018	0.002			0.008		0.003					Ø 38x19 mm	RM
BS-47B					0.023				0.006							Ø 38-41x12 mm	RM
BS-48B	(0.0002)		(0.003)	[88.7]	0.0088	(0.001)	(0.0002)	(0.001)	0.0049		0.0031	0.026	(0.0003)	(0.002)		Ø 38x19 mm	CRM
BS-53G	(0.0001)		(0.0001)		0.0084				0.007		(0.002)	(0.13)				Ø 35-44x19 mm	RM
BS-55G	0.0002		0.0014	95.6	0.008		<0.005	<0.005	0.008		0.005	0.03		0.002		Ø 38x19 mm	prov.
BS-58E	(0.0002)		(0.0002)		0.0033				0.003		(0.002)					Ø 35-44x19 mm	RM
BS-68E	0.0002		(0.0003)		0.0030	(0.002)	(<0.001)	(<0.001)	0.0056		0.009	(<0.001)				Ø 35-44x19 mm	CRM
BS-1962					0.0095		(0.001)		0.01		0.004					Ø 41 x 19 mm	RM
BS-1982					0.0097	(<0.003)	(0.0003)	0.002	0.013		(0.001)					Ø 38x19 mm	CRM
BS-4150MOD		0.07	0.001		0.0087		0.001		0.013		(0.002)					Ø 38x12 mm	RM
BS-9905A	(0.0005)		(0.002)	88.9	0.034	0.074	(0.002)	(0.003)	0.006	(0.01)	0.0023	0.0024		(0.002)		Ø 38x19 mm	CRM
BS-H-13	(0.0002)		(0.0003)	(90.4)	0.0108	(0.0004)	(0.0003)	0.0020	0.0093	(0.003)	(0.0019)	0.0022		(0.0014)		Ø 38x19 mm	CRM
BS-PP20	0.00011		0.0003		0.008	0.0048		0.0013	0.0069		0.0007	0.0058				Ø 38x19 mm	CRM

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BAS - Chromium Molybdenum Steel

		Analyte - Measured Values														
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	As	B	N
BAS-SS-CRM 112	Low Alloy Steels	0.394	0.289	0.436	0.0043	0.0026	1.236	1.461	0.19	0.149		0.0175	0.0148	0.0021	0.0007	0.0024
BAS-SS-CRM 407/2	Low Alloy Steel (Group B)	0.490	1.121	0.195	0.038	0.0105	3.03	0.527	0.83	0.397	0.19	0.0068	0.040			(0.011)

	Anayte - Measured Values (continued)					
Code	Nb	Sn	Ti		Size	Type
BAS-SS-CRM 112	0.0065	0.0086	0.01		Ø 44x19 mm	CRM
BAS-SS-CRM 407/2					Ø 38x19 mm	CRM

MBH - Chromium Molybdenum Steel

		Analyte - Measured Values															
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	As	N	Nb	Sn
MBH-12X 11572 A	Low Alloy Steel	0.111	0.649	0.498	0.0069	0.0025	1.107	0.0977	0.499	0.0576			0.0290	0.0030	0.0058		0.0049
MBH-12X 14072 A	Low Alloy Steel	0.43	0.322	0.68	0.0151	0.0061	1.061	0.136	0.573	0.203	0.301	0.0098	0.0039		0.0103		(0.011)
MBH-12X 15266 V	Low Alloy Steel	0.45	0.66	1.26	0.034	0.026	3.4	1.31	0.3	0.23	0.11	0.3	0.52	0.07		1.45	0.01
MBH-12X 24065 A	Low Alloy Steel	(0.38)	(0.22)	(0.52)	(0.012)	(0.005)	(1.44)	(0.27)	(0.173)	(0.22)	(0.004)		(1.05)	(0.008)	(0.008)		(0.013)
MBH-12X 41400 A	Low Alloy Steel	0.418	0.221	0.795	0.0138	0.021	1.003	0.127	0.211	0.238			0.0195	0.0088	0.0101		0.0181
MBH-12X 43400 A	Low alloy steel	0.422	0.259	0.592	0.0164	0.0284	1.181	1.378	0.223	0.177			0.013	0.0084	0.0089		0.007
MBH-12X 15CDV6 A	Low alloy steel	0.171	0.152	0.839	0.0056	0.0086	1.397	0.044	0.875	0.0231	0.242		0.019	0.0041	0.0069		0.0011
MBH-12X 40CDV12 A	Low Alloy Steel	0.401	0.250	0.604	0.0060	0.0013	3.29	0.1062	0.946	0.0978	0.198	0.0197	0.0208	0.0040	0.0155		0.0049

	Analyte - Measured Values (continued)					
Code	Ta	Zn		Size	Form	Type
MBH-12X 11572 A		0.0009		Ø 38x15 mm	W	CRM
MBH-12X 14072 A				Ø 38x15 mm	W	prov.
MBH-12X 15266 V	0.12			Ø 40x15 mm	CC	prov.
MBH-12X 24065 A		(0.003)		Ø 40x15 mm	W	CRM
MBH-12X 41400 A		0.0041		Ø 38x20mm	W	CRM
MBH-12X 43400 A		0.0027		Ø 40x15 mm	W	CRM
MBH-12X 15CDV6 A				Ø 40x15 mm	W	CRM
MBH-12X 40CDV12 A				Ø 38x15 mm	W	CRM

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IMZ - Chromium Molybdenum Steel

		Analyte - Measured Values													
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	N	Nb
IMZ-159	High Alloy Steel	0.075	0.33	0.39	0.022	0.005	2.64	0.31	0.98	0.41	0.1		0.024		
IMZ-160	High Alloy Steel	0.077	0.34	0.38	0.023	0.004	2.64	0.3	0.98	0.42	0.1		0.031		
IMZ-169	High Alloy Steel	0.099	0.35	0.54	0.015	0.0155	2.2	0.073	1.03	0.128	(0.016)	0.012	0.075	0.0193	(0.0045)

	Analyte - Measured Values (continued)						
Code	Pb	Sn	Ti	W	Size	Type
IMZ-159				0.26	Ø 40x40 mm	CRM
IMZ-160				0.26	Ø 40x40 mm	CRM
IMZ-169	(0.001)	0.062	0.001		Ø 40x40 mm	CRM

HRT - Chromium Molybdenum Steel

		Analyte - Measured Values													
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Al	Ca	Nb	Ti
HR-FE2006 N	Low Alloy Steel	0.9	0.28	1.13	0.13	0.003	0.54	0.04	0.01	0.03	0.059	0.025	0.0022		0.005
HR-FE2009 N	Low Alloy Steel	0.12	0.32	0.55	0.01	0.003	2.56	0.25	1.02	0.08	0.015	0.03	0.002		
HR-FE2012 H	High Alloy Steel	0.37	0.42	0.41	0.019	0.002	5.13	0.2	2.78	0.07	0.42			0.007	

	Analyte - Measured Values (continued)			
Code	W	Zn	Size	Type
HR-FE2006 N	0.54		Ø 29x20 mm	RM
HR-FE2009 N		0.004	Ø 40x40 mm	RM
HR-FE2012 H			Ø 40x20 mm	RM

Miscellaneous - Chromium Molybdenum Steel

		Analyte - Measured Values														
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Mg	As	B
IRSID-1745	Steel, low alloyed	0.295	0.22	0.85	0.0077	0.081	1.13	0.188	0.222	0.202	(0.004)		0.0202		0.0262	
IRSID-1749	Steel, low alloyed	0.411	0.193	0.733	0.0104	0.0157	1.734	0.19	0.257	0.188	(0.0036)	0.0141	1.034	0.0009	0.0134	<0.0005
IPT-501	Low Alloy Steel (AISI 4130H)	0.277	0.208	0.723	0.016	0.03	1.05	0.063	0.21	0.083		0.008	0.034			
SUS-RMFED/5	Steel, unalloyed	0.85	1.18	0.31	0.022	0.023	2.72	0.12	1.41	0.11	0.031	0.32	0.22		0.005	
SUS-RMFED/7	Steel, unalloyed	0.85	1.03	0.21	0.019	0.013	2.97	0.12	1.21	0.06	0.05	0.32	0.15		0.004	

	Analyte - Measured Values (continued)															
Code	Bi	Ca	N	Nb	Pb	Sb	Se	Sn	Te	Ti	W	Zn	Zr		Size	Type
IRSID-1745								0.0134	0.004	(0.003)		0.003			Ø 48x30 mm	CRM
IRSID-1749	<0.0002	(0.0002)	0.0066	(<0.0005)	(<0.0002)	0.0018	<0.0010	0.0148	<0.0001	0.0031	(<0.0030)	<0.0006	(<0.0003)		Ø 41x25 mm	CRM
IPT-501			0.0076					0.008		0.0015					Ø 35x20 mm	CRM
SUS-RMFED/5								0.013							Ø 40x40 mm	RM
SUS-RMFED/7								(0.003)							Ø 40x40 mm	RM

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BAS - High Manganese Steel

Code	Description	Analyte - Measured Values C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	As	N	Ti
BAS-SS-CRM 492/3	High Manganese Steel (Cast)	1.18	0.299	8.33	0.0318	0.0093	1.076	4.17	1.318	0.0211	(0.004)	0.0048	0.131	(0.002)	0.0225	0.0024
BAS-SS-CRM 493-3	High Manganese Steel (Cast)	0.819	0.861	11.15	0.12	0.009	0.259	3.24	1.04	0.017	0.025		0.035		0.025	
BAS-SS-CRM 495/4	High Manganese Steel (Cast)	0.796	0.674	13.11	0.093	0.0128	2.223	1.620	0.266	0.0222	0.0525	0.0120	0.0082		0.0416	

Code		Size	Type
BAS-SS-CRM 492/3		48x42x12 mm	CRM
BAS-SS-CRM 493-3		48x42x12 mm	CRM
BAS-SS-CRM 495/4		48x42x12 mm	CRM

MBH - High Manganese Steel

Code	Description	Analyte - Measured Values C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Al	N	Nb	Sn	Ta	Ti
MBH-14X MN1 AL	High manganese steel	0.57	0.9	22.0	0.05	0.005	1.3	0.7	0.5	0.2	0.025	0.2	0.06	0.1	0.04	0.007	0.035
MBH-14X MN2 R	High Mn Steel Alloy	0.700	1.48	9.65	0.020	0.010	0.355	0.530	1.58	0.080	0.12	0.12	0.012	0.29	0.063		0.18
MBH-14X MN3 T	High manganese steel	0.994	1.0	11.03	0.039	0.0091	0.749	0.497	0.259	0.153	0.0198	0.041	0.034	0.407	0.0195		
MBH-14X MN4 AC	High manganese steel	0.9	0.9	13.7	0.07	0.02	2.0	1.05	0.8	0.27	0.035	0.2	0.045	0.15	0.07	0.001	0.075
MBH-14X MN5 T	High Mn Steel Alloy	1.377	1.59	8.55	0.0270	0.0110	3.31	1.372	1.91	0.421	0.0397	(0.26)	0.0155	0.021	0.0129	0.005	(1.00)
MBH-14X MN5 U	High Mn Steel Alloy	1.37	1.44	8.84	0.06	0.03	3.13	2.1	1.95	0.66	0.05	0.025		0.1	0.024	0.01	0.94
MBH-14X MN5 V	High Mn Steel Alloy	1.4	2.4	8.1	0.06	0.02	3.26	3.1	2.3	0.54	0.08	0.14		0.04	0.03	0.003	0.49

Code		Size	Form	Type
MBH-14X MN1 AL		Ø 40x15 mm	CC	prov.
MBH-14X MN2 R		Ø 40x~17 mm	CC	CRM
MBH-14X MN3 T		Ø 40x15 mm	CC	CRM
MBH-14X MN4 AC		Ø 40x15 mm	CC	prov.
MBH-14X MN5 T		Ø 40x15 mm	CC	CRM
MBH-14X MN5 U		Ø 40x15 mm	CC	prov.
MBH-14X MN5 V		Ø 40x15 mm	CC	prov.

BS - High Manganese Steel

Code	Description	Analyte - Measured Values C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	N	Nb	Sn
BS-17A	Steel - Manganese	0.588	0.22	19.38	0.043	0.005	1.37	0.06	0.52	0.135	0.016	0.013	0.052	0.038	0.06	0.012
BS-19A	Steel - Manganese	1.57	1.46	8.76	0.092	0.009	3.75	1.48	1.97	0.51	0.1	0.014	0.057	0.039	0.04	0.037

Code		Size	Type
BS-17A		Ø 32x17 mm	RM
BS-19A		Ø 32x17 mm	RM

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MQ (DSZU) - High Manganese Steel

		Analyte - Measured Values														
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Al	B	N	Nb	Ti
MQ-C010	High manganese steel	1.2	0.49	12.25	0.082	0.0035	0.187	0.108		0.12		(0.006)		(0.017)		
MQ-C011	High manganese steel	0.44	0.41	16.09	0.031	0.0093	0.3	0.058		0.105		(2.5)		(0.01)		
MQ-C011A	DSZU - High Manganese Steel	0.45	0.43	17.4	0.042	0.008	0.36	0.11	(0.014)	0.089		(2.8)				
MQ-C012	High manganese steel	0.39	0.31	20.9	0.021	0.0072	0.17	0.103		0.087	(1.14)	(3)		(0.013)		
MQ-C013	High manganese steel	0.89	0.29	28.8	0.025	(0.002)	(0.14)	(0.2)	(0.44)	0.108	(0.1)	(6)		(0.002)	(0.44)	
MQ-C020	High manganese steel	0.97	0.091	8.85	0.024	(0.015)	0.96	1.36	0.13	0.53	0.152	(0.004)	(0.002)	(0.02)	(0.02)	(0.003)
MQ-C020A	High manganese steel	0.97	0.091	8.85	0.024	(0.015)	0.96	1.36	0.13	0.53	0.152	(0.004)	(0.002)	(0.02)	(0.02)	(0.003)
MQ-C021	High manganese steel	1.32	0.105	11.23	0.035	0.01	0.62	0.36	0.096	0.32	0.124	(0.003)	(0.002)	(0.013)	(0.03)	(0.005)
MQ-C022	High manganese steel	1.15	0.34	12.89	0.087	0.0057	0.192	0.122	0.03	0.103	(0.03)	(0.007)	(0.001)	(0.013)	(0.01)	(0.006)
MQ-C023	High manganese steel	0.79	0.291	13.09	0.052	0.0062	0.313	3.15	(0.02)	0.111	(0.02)	(0.006)	(0.001)	(0.018)	(0.02)	(0.004)
MQ-C024	High manganese steel	0.88	0.531	16.95	0.068	0.01	1.62	0.66	0.29	0.72	(0.29)	(0.004)	(0.003)	(0.021)	(0.1)	(0.006)
MQ-LG51	High manganese steel (DSZU 083.32-2013)	0.98	0.09	8.9	0.024	0.016	0.97	1.37	0.157	0.53	0.151	(0.004)	0.001	0.023	0.11	(0.003)
MQ-LG52	High manganese steel (DSZU 083.32-2013)	1.33	0.11	11.2	0.034	0.012	0.62	0.36	0.096	0.31	0.121	(0.003)	0.0016	0.013	0.023	(0.005)
MQ-LG53	High manganese steel (DSZU 083.32-2013)	1.15	0.35	12.9	0.087	0.0056	0.197	0.121	0.01	0.1	0.0104	(0.007)	(0.001)	0.013	0.01	(0.006)
MQ-LG54	High manganese steel (DSZU 083.32-2013)	0.78	0.292	13.1	0.051	0.0061	0.32	3.15	0.018	0.109	0.0211	(0.006)	(0.0013)	0.02	(0.02)	(0.004)
MQ-LG55	High manganese steel (DSZU 083.32-2013)	0.88	0.54	16.9	0.069	0.01	1.65	0.66	0.3	0.69	0.326	(0.004)	0.0037	(0.021)	0.1	(0.006)

Code		Size	Type
MQ-C010		Ø 38-42x20-25 mm	CRM
MQ-C011		Ø 38-42x20-25 mm	CRM
MQ-C011A		Ø 40 x 20 mm	CRM
MQ-C012		Ø 38-42x20-25 mm	CRM
MQ-C013		Ø 38-42x20-25 mm	CRM
MQ-C020		Ø 38-42x20-25 mm	CRM
MQ-C020A		Ø 38-42x20-25 mm	CRM
MQ-C021		Ø 38-42x20-25 mm	CRM
MQ-C022		Ø 38-42x20-25 mm	CRM
MQ-C023		Ø 38-42x20-25 mm	CRM
MQ-C024		Ø 38-42x20-25 mm	CRM
MQ-LG51		Ø 38-42x19-25 mm	CRM
MQ-LG52		Ø 38-42x19-25 mm	CRM
MQ-LG53		Ø 38-42x19-25 mm	CRM
MQ-LG54		Ø 38-42x19-25 mm	CRM
MQ-LG55		Ø 38-42x19-25 mm	CRM

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NCS HS11720 (Set) - High Manganese Steel

		Analyte - Measured Values															
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	B	N	Ti	Size	Type
NCS HS11720-1	High Mn Steel (Set of 6 only)	1.96	0.348	22.96	0.188	0.0063	3.01	0.045	0.0095	0.025	0.034	0.0094	0.0021	0.091	0.0041	Ø 38x24 mm	CRM
NCS HS11720-2	High Mn Steel (Set of 6 only)	1.61	0.652	10.66	0.052	0.054	0.467	0.328	0.118	0.221	0.132	0.01	0.0038	0.054	0.047	Ø 38x24 mm	CRM
NCS HS11720-3	High Mn Steel (Set of 6 only)	1.16	1.16	16.75	0.077	0.055	0.257	0.152	0.589	0.143	0.53	0.091	0.0013	0.033	0.03	Ø 38x24 mm	CRM
NCS HS11720-4	High Mn Steel (Set of 6 only)	1.06	1.47	15.04	0.044	0.059	1.45	1.66	0.881	0.089	0.567	0.0093	0.0023	0.072	0.013	Ø 38x24 mm	CRM
NCS HS11720-5	High Mn Steel (Set of 6 only)	0.75	1.01	12.2	0.118	0.037	0.68	0.838	0.302	0.449	0.273	0.007	0.0009	0.026	0.018	Ø 38x24 mm	CRM
NCS HS11720-6	High Mn Steel (Set of 6 only)	2.38	1.69	5.36	0.029	0.108	0.084	3.43	1.51	0.474	0.837	0.107	0.017	0.016	0.218	Ø 38x24 mm	CRM

Miscellaneous - High Manganese Steel

		Analyte - Measured Values													
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	As	B
IRSID-1833	Mn Steel X-IP1000 with 22 % Mn	0.605	0.193	22.57	0.0345	(0.0005)	0.268	0.0494	0.0133	0.03	0.203	0.0089	0.0025	0.0034	(0.00017)
IMZ-198	High Manganese Steel	0.44	0.423	16.1	0.031	0.009	0.3	0.058	(0.008)	0.104			2.8		
IMZ-199	High manganese steel	0.9	0.294	28.74	0.022	(0.0006)	0.164	0.2	0.43	0.11	0.026		8.65		(0.001)
SPL-SP-2C	Manganese Steel	1.4	0.29	14.5	0.037		0.35		0.03	0.014	0.033		0.05	0.044	0.037

	Analyte - Measured Values (continued)										
Code	N	Nb	Pb	Sb	Sn	Ti	W	Zn		Size	Type
IRSID-1833	0.012	0.0026	7E-05	(0.0005)	0.0043	0.0011		(0.0014)		Ø 35 x 35 mm	CRM
IMZ-198						(0.005)				Ø 37x30 mm	CRM
IMZ-199		0.43				(0.004)				Ø 50x15 mm	CRM
SPL-SP-2C	0.027	(0.003)			(0.005)	0.051	0.05			Ø 37x25 mm	RM

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ARMI - Silicon Steel

		Analyte - Measured Values														
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Mg	As	B
IARM-172A-G	SCLA, CLA9	0.78	1.29	0.01	0.007	0.004	3.52	0.025	0.014	0.4	0.003	0.006	0.39		(0.005)	0.0003
IARM-172A-X	SCLA, CLA9	0.78	1.29	0.01	0.007	0.004	3.52	0.025	0.014	0.4	0.003	0.006	0.39		(0.005)	0.0003
IARM-340A-G	Low-Alloy Steel, AISI 300M / UNS K44220	0.414	1.63	0.755	0.011	0.001	0.84	1.8	0.39	0.103	0.064	0.006	0.062	(0.0002)	0.004	0.0004
IARM-340A-X	Low-Alloy Steel, AISI 300M / UNS K44220	0.414	1.63	0.755	0.011	0.001	0.84	1.8	0.39	0.103	0.064	0.006	0.062	(0.0002)	0.004	0.0004
IARM-342A-G	Low-Alloy Steel, Hy-Tuff / UNS K32550	0.257	1.63	1.37	0.006	0.0051	0.38	1.76	0.42	0.11	0.023	0.008	0.019	(0.0002)	0.006	0.0004
IARM-342A-X	Low-Alloy Steel, Hy-Tuff / UNS K32550	0.257	1.63	1.37	0.006	0.0051	0.38	1.76	0.42	0.11	0.023	0.008	0.019	(0.0002)	0.006	0.0004

	Analyte - Measured Values (continued)													
Code	Ca	N	Nb	Pb	Sb	Sn	Ti	W	Zn	Zr		Size	Form	Type
IARM-172A-G	(0.0001)	0.0004	0.004	(<0.01)		0.003	0.003	0.038		(<0.005)		Ø 38x19 mm	W	CRM
IARM-172A-X	(0.0001)	0.0004	0.004	(<0.01)		0.003	0.003	0.038		(<0.005)		Ø 38x3 mm	W	CRM
IARM-340A-G	(0.0004)	0.002	0.015	(0.001)	0.0021	0.005	0.0098	0.005	(0.0001)	(0.002)		Ø 38x19 mm	W	CRM
IARM-340A-X	(0.0004)	0.002	0.015	(0.001)	0.0021	0.005	0.0098	0.005	(0.0001)	(0.002)		Ø 38x3 mm	W	CRM
IARM-342A-G	(0.0001)	0.0102	(0.002)	0.0008	0.0021	0.021	0.0028	(0.005)	(0.001)	(0.002)		Ø 38x19 mm	W	CRM
IARM-342A-X	(0.0001)	0.0102	(0.002)	0.0008	0.0021	0.021	0.0028	(0.005)	(0.001)	(0.002)		Ø 38x3 mm	W	CRM

ECRM - Silicon Steel

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Mg	As
ECRM-B 186-1-D	Alloy steel - disc	0.61	1.719	0.87	0.022	0.035	0.218	0.19	0.048	0.281			0.014		
ECRM-D 191-2-D	Dynamo steel, material number: 1.0812 - disc	0.0043	3.267	0.1334	0.0087	0.0029	0.0314	0.0224	0.002	0.0165			0.985		0.0018
ECRM-S 196-1-D	2% Silicium steel - disc	0.0039	1.9075	0.365	0.0076	0.0005							0.201		
ECRM-S 196-2-D	2% Silicium steel - disc	0.0060	1.808	0.364	0.00369	0.00065	0.0282	0.0401	0.0142	0.0057	0.00368	0.0138	0.2167	0.00075	0.00033

	Analyte - Measured Values (continued)								
Code	B	Ca	N	Sn	Ti	Zn		Size	Type
ECRM-B 186-1-D								Ø 38x30 mm	CRM
ECRM-D 191-2-D			0.00105	0.005	0.0024			Ø 38x20 mm	CRM
ECRM-S 196-1-D		0.0005	0.0020					Ø 38x25 mm	CRM
ECRM-S 196-2-D	0.00014	0.00071	0.00178	0.00047	0.00253	0.00019		Ø 38x25 mm	CRM

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Silicon Steel

		Analyte - Measured Values														
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Sn	Ti	Zr
NIST-1134	Low-Alloy High-Silicon Steel (disk form)	0.0261	2.889	0.2751	0.0276	0.0095	0.0198	0.0375	0.0087	0.0707			(0.329)	0.0034		
NIST-1135	LA Steel, High Silicon	0.027	3.19	0.094	0.006	0.026	0.022	0.05	0.014	0.056	<0.01		0.0028	0.004		
NIST-1173	Ni-Cr-Mo-V steel	0.423	1.28	0.19	0.033	0.092	2.7	4.06	1.5	0.204	0.42					
NIST-1218	LA Steel,High Silicon	0.0029	(3.2)	0.014	(0.002)	0.0011	0.006	(0.002)	(0.003)	0.003	<0.001	0.002	0.005		(0.004)	0.002
NIST-C1173	Cast Steel 3	0.453	1.38	0.174	0.031	0.092	2.63	4.04	1.46	0.204	0.42				0.037	

Code		Size	Form	Type
NIST-1134		Ø 31x19 mm		CRM
NIST-1135		Ø 32x19 mm		CRM
NIST-1173		Ø 32x19 mm		CRM
NIST-1218		Ø 32x19 mm		CRM
NIST-C1173		Ø 32x19 mm	C	CRM

BAS - Silicon Steel

		Analyte - Measured Values														
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	As	B	N
BAS-SS-CRM 113	Low Alloy Steels	0.837	0.931	1.207	0.0595	0.0294	1.248	0.0784	0.056	0.179	0.201	0.0415	0.0151	0.002	0.0066	0.0109
BAS-SS-CRM 403/1	Low Alloy Steel (Group A)	0.88	0.084	1.84	0.028	0.034	0.33	0.12	0.073	0.18	0.26					
BAS-SS-CRM 603/2	Plain Carbon Steel	0.79	0.97	0.236	0.020	0.056	(0.04)	(0.03)	(0.004)	(0.05)	(0.001)	(0.01)	0.076			
BAS-SS-CRM 604/2	Plain Carbon Steel	0.199	0.75	1.91	0.016	0.072	(0.06)	(0.09)	(0.02)	(0.07)	(0.001)	(0.01)	0.008			

	Analyte - Measured Values (continued)							
Code	Nb	Sn	Ti	W	Zr	Size	Type
BAS-SS-CRM 113	0.0487	0.0067	0.039	0.012	0.0029	Ø 44x19 mm	CRM
BAS-SS-CRM 403/1						Ø 38x16 mm	CRM
BAS-SS-CRM 603/2					<(0.005)	Ø 44x19 mm	CRM
BAS-SS-CRM 604/2					<(0.005)	Ø 44x19 mm	CRM

BAS - Silicon Steel (set)

		Analyte - Measured Values														
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	N	Size	Type
BAS-SS-CRM 401/2	Low Alloy Steel (Group A)	0.935	0.602	1.197	0.0265	0.0078	0.138	0.019	0.495	0.101	0.496	0.0042	0.074	(0.015)	Ø 38x19 mm	CRM
BAS-SS-CRM 402/2	Low Alloy Steel (Group A)	1.311	0.947	0.228	0.0161	0.0138	0.652	0.808	0.140	0.302	0.194		0.161	0.0069	Ø 38x19 mm	CRM
BAS-SS-CRM 403/2	Low Alloy Steel (Group A)	0.750	0.66	1.677	0.055	0.0381	0.463	0.223	0.088	0.221	0.341		0.0485	(0.010)	Ø 38x19 mm	CRM
BAS-SS-CRM 404/2	Low Alloy Steel (Group A)	0.696	0.111	0.532	0.0479	0.0228	0.774	0.393	0.307	0.427	0.107		0.017	0.0089	Ø 38x19 mm	CRM
BAS-SS-CRM 405/2	Low Alloy Steel (Group A)	0.044	0.209	0.903	0.0095	0.058	0.206	0.102	0.025	0.022	0.411		0.330	(0.011)	Ø 38x19 mm	CRM

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MBH - Silicon Steel

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	As	N	Nb
MBH-12X 15251 T	Low Alloy Steels	1.17	2.27	1.003	0.0284	0.0258	0.792	1.035	0.205	0.11	0.405	0.259	0.05		0.0232	0.29
MBH-12X 15251 U	Low Alloy Steel	1.01	2.1	0.92	0.026	0.020	0.62	0.90	0.21	0.12	0.40	0.23	0.10		0.002	0.26
MBH-12X 15252 Q	Low Alloy Steels	0.0478	0.265	0.818	0.0213	0.058	0.887	2.03	0.248	0.154	0.33	0.154	0.074		0.0218	0.1
MBH-12X 15253 S	Low alloy steel	0.173	0.299	0.992	0.0552	0.053	1.505	0.506	0.513	0.326	0.242	0.0898	0.024	0.0259	0.0235	0.383
MBH-12X 15254 Z	Low Alloy Steel (wrought)	0.285	0.916	1.117	0.043	0.047	2.12	0.394	0.758	0.123	0.290	0.550	0.599			0.347
MBH-12X 15255 Q	Low Alloy Steel	0.351	1.02	1.191	0.104	0.07	1.509	0.296	0.1193	0.279	0.475	0.0502	0.073	0.0193	0.027	0.152
MBH-12X 15256 Q	Low Alloy Steel	0.12	0.18	0.48	0.015	0.015	0.36	5.3	0.08	0.06	0.6	0.5	0.14		0.005	0.06
MBH-12X 15258 N	Low Alloy Steels	0.548	1.02	1.434	0.0439	0.0710	0.465	0.327	0.215	0.0934	0.218	0.272	0.032			0.103
MBH-12X 15259 Q	Low Alloy Steel	0.603	1.81	0.401	0.0401	0.0704	0.512	4.02	0.407	0.2	0.139	0.141	0.1488		0.0151	0.249
MBH-12X 15260 W	Low Alloy Steel (wrought)	0.352	0.485	2.08	0.0275	0.074	2.98	0.453	0.098	0.152	0.442	0.0884	0.191	0.055		0.254
MBH-12X 15261 W	Low Alloy Steels	0.689	1.606	0.437	0.111	0.079	0.495	0.113	1.508	0.252	0.114	0.363	1.013			0.691
MBH-12X 44220 A	Low alloy steel	0.417	1.662	0.874	0.005	0.0009	0.846	1.89	0.401	0.031	0.0764		0.029	0.0026	0.003	
MBH-12X LA2 E	Low alloy steel	0.195	0.678	0.57	0.0241	0.0263	0.813	0.783	0.136	0.786	0.099	0.0306	1.381	0.292	0.0173	

Analyte - Measured Values (continued)

Code	Sn	Ta	Ti	W		Size	Form	Type
MBH-12X 15251 T	0.0047			0.053		Ø 43x20 mm	W	CRM
MBH-12X 15251 U	0.010			0.38		Ø 43x20 mm	W	prov.
MBH-12X 15252 Q	0.0448	0.054				Ø 40x15 mm	W	CRM
MBH-12X 15253 S	0.129	0.011		0.265		Ø 40x15 mm	W	CRM
MBH-12X 15254 Z	0.0651		0.303	0.349		Ø ~40x20 mm	W	CRM
MBH-12X 15255 Q	0.101		0.0377	0.15		Ø 40x15 mm	W	prov.
MBH-12X 15256 Q	0.11			0.09		Ø 40x15 mm	W	prov.
MBH-12X 15258 N	0.0453		0.120	0.102		Ø 42x15 mm	W	CRM
MBH-12X 15259 Q	0.053			0.49		Ø 40x15 mm	W	prov.
MBH-12X 15260 W	0.0094	(0.016)				Ø ~40x15 mm	W	CRM
MBH-12X 15261 W	0.0157		0.397	0.256		Ø 40x15 mm	W	CRM
MBH-12X 44220 A	0.0019					Ø 38x15 mm	W	CRM
MBH-12X LA2 E	0.0066					Ø 40x15 mm	W	CRM

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BS - Silicon Steel

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Mg	As
BS-69B	Steel - Low Alloy - Ni > 1%	0.258	1.27	1.28	0.008	0.013	0.28	1.71	0.39	0.086	(0.002)	0.035	0.024		
BS-178	Steel	0.436	3.08	0.43	0.016	0.001	8.17	0.21	0.044	0.12	0.041	0.018	(0.007)		
BS-300	Low Alloy 300M, UNS K44220	0.41	1.68	0.721	0.0046	0.0006	0.803	1.867	0.37	0.118	0.07	0.0079	0.099	0.0001	0.003
BS-6418	6418 Low Alloy Steel	0.255	1.54	1.42	0.01	0.004	0.34	1.74	0.42	0.11	0.003	0.01	0.027		0.0044

Analyte - Measured Values (continued)

Code	B	Ca	Fe	N	Nb	Pb	Sb	Sn	Ta	Ti	W	Zr		Size	Type
BS-69B				0.0057				0.006		(0.002)				Ø 35-44x19 mm	RM
BS-178	(0.0002)			0.014	(0.002)			(0.007)		0.014	0.017			Ø 31x12 mm	RM
BS-300	0.0003	0.0008	93.8	0.0023	0.0031	(0.000026)	0.0007	0.0053	(0.0012)	0.0096	0.0009	(0.0002)		Ø 38x19 mm	CRM
BS-6418				0.0066				0.006		0.003				Ø 57x19 mm	RM

NCS - Silicon Steel

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Al(s)	As	B	N	Nb
NCS HS11706-3	Silicon steel	0.106	1.03	0.546	0.045	0.029	0.187	0.571		0.146			0.783	0.779		0.012	0.0058	
NCS HS11706-5	Silicon steel	0.04	4.16	1.1	0.02	0.031	0.042	0.101		0.063			0.068	0.065		0.0054	0.0026	
NCS HS11744	Carbon Steel	0.092	0.825	1.04	0.014	0.066	0.166	1.94	0.912	0.572	0.131	0.397	0.044		0.019	0.0007		0.05
NCS HS11751	Low alloy steel	0.661	1.82	0.805	0.027	0.017	0.021	0.02		0.136		0.011			0.016			

Analyte - Measured Values (continued)

Code	Sb	Sn	Ti	Zr		Size	Type
NCS HS11706-3	0.0012	0.019	0.026	0.017		Ø 37x30 mm	CRM
NCS HS11706-5	0.022	0.0055	0.01	0.0035		Ø 37x30 mm	CRM
NCS HS11744		0.0041	0.049	0.0025		Ø 38x30 mm	CRM
NCS HS11751						Ø 37x45 mm	CRM

VS - Silicon Steel

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Al	Al(s)	As	B	N	Nb
VS-UG1/9	Steel	0.63	1.63	0.84	0.03	0.017	0.046	0.105	0.135	0.02	0.024	0.027		(0.001)	(0.0003)	(0.002)	0.124
VS-UG4/9	Steel	0.53	2.23	1.28	0.017	0.016	0.139	0.71	0.117	0.099	0.054	0.023		(0.001)	(0.0003)	(0.004)	(<0.001)
VS-UG88	Steel	0.62	1.22	1.26	0.0026	0.0043	0.474	0.52	0.104	0.171	0.117	0.01	0.009	0.0007		0.02	0.059

Analyte - Measured Values (continued)

Code	Pb	Sb	Sn	Ti	W		Size	Type
VS-UG1/9	(0.002)		(0.002)	0.069	0.063		Ø 45-50 x 28-32 mm	CRM
VS-UG4/9	0.008		0.081	0.126	0.061		Ø 45-50 x 28-32 mm	CRM
VS-UG88	0.00015	0.0003		0.107			Ø 45-50 x 28-32 mm	CRM

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SPL - Silicon Steel

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	As	B	Ca	N
SPL-CM-2A-10MM	Steel - Silicon	0.2	1.66	0.97	0.1	0.012	1.5	1.2	0.33	1.01	0.1	0.43	0.03	0.11	0.0005		
SPL-CM-2A-25MM	Steel - Silicon	0.2	1.66	0.97	0.1	0.012	1.5	1.2	0.33	1.01	0.1	0.43	0.03	0.11	0.0005		
SPL-CM-12A-10MM	Steel - Silicon	0.031	3.21	0.172	0.013	0.0106	0.067	0.03	0.008	0.173	<0.01	0.003	0.098	0.003			0.007
SPL-CM-12A-25MM	Steel - Silicon	0.031	3.21	0.172	0.013	0.0106	0.067	0.03	0.008	0.173	<0.01	0.003	0.098	0.003			0.007
SPL-CM-14A-10MM	Steel - Silicon	0.523	1.15	1.58	0.051	0.028	1.13	1.14	0.395	0.3	0.345	0.015	0.063	0.016	0.0062	0.004	0.0095
SPL-CM-14A-25MM	Steel - Silicon	0.523	1.15	1.58	0.051	0.028	1.13	1.14	0.395	0.3	0.345	0.015	0.063	0.016	0.0062	0.004	0.0095
SPL-CM-14B-10MM	Steel - Silicon	0.55	1.18	1.63	0.017	0.023	1.38	1.1	0.4	0.36	0.36	0.026	0.26	0.015	0.0205		0.0072
SPL-CM-14B-25MM	Steel - Silicon	0.55	1.18	1.63	0.017	0.023	1.38	1.1	0.4	0.36	0.36	0.026	0.26	0.015	0.0205		0.0072
SPL-LA-2D-25MM	Low alloy steel QCM	0.065	1.48	0.26	0.011	0.052	0.135	2	0.57	0.53	0.3	0.26	0.18	0.095	0.007	0.0004	0.008
SPL-LA-3E-25MM	Low alloy steel QCM	0.6	0.72	0.7	0.044	0.026	0.94	1.01	0.32	0.22	0.22	0.11	0.061	0.056	0.005	0.001	0.01
SPL-SP-5B-10MM	Special steel QCM	0.2	3.07	1.86	0.108	0.023	0.38	3	0.13	0.15	0.71	0.135	0.18	0.19	0.14		
SPL-SP-5B-25MM	Special steel QCM	0.2	3.07	1.86	0.108	0.023	0.38	3	0.13	0.15	0.71	0.135	0.18	0.19	0.14		
SPL-SP-6A-10MM	Special steel QCM	0.1	4.65	0.38	0.017	0.009	0.11	0.04	0.01	0.12	0.016	0.003	0.32	0.003			
SPL-SP-6A-25MM	Special steel QCM	0.1	4.65	0.38	0.017	0.009	0.11	0.04	0.01	0.12	0.016	0.003	0.32	0.003			
SPL-SST-1A	RM of Silicon Steel	0.072	2.57	0.062	0.041	0.0043	0.209	0.155	(0.002)	0.654	0.006	0.005	0.061	0.002	0.0003		0.0059
SPL-SST-2A	RM of Silicon Steel	0.083	3.07	0.16	0.026	0.0089	0.138	0.066	0.054	0.205	0.024	0.022	0.01		0.0089		0.0078
SPL-SST-3A	RM of Silicon Steel	0.035	3.27	0.221	0.007	0.0093	0.043	0.061	0.036	0.096	0.041	0.038	0.009	0.003	0.0019		0.0088
SPL-SST-4A	RM of Silicon Steel	0.062	4.73	0.376	0.031	0.02	0.105	0.082	0.019	0.111	0.031	0.012	0.514	0.004	0.0006		0.0058

Analyte - Measured Values (continued)

Code	Nb	Pb	Sb	Sn	Ta	Ti	W	Zn	Zr		Size	Type
SPL-CM-2A-10MM	0.48	0.06	0.008	0.08	0.027	0.34	0.23		0.03		Ø 35-43x10 mm	RM
SPL-CM-2A-25MM	0.48	0.06	0.008	0.08	0.027	0.34	0.23		0.03		Ø 35-43x25 mm	RM
SPL-CM-12A-10MM				<0.01		0.005					Ø 35-43x10 mm	RM
SPL-CM-12A-25MM				<0.01		0.005					Ø 35-43x25 mm	RM
SPL-CM-14A-10MM	0.115	0.013	0.006	0.027	0.015	0.4	0.021		0.044		Ø 35-43x10 mm	RM
SPL-CM-14A-25MM	0.115	0.013	0.006	0.027	0.015	0.4	0.021		0.044		Ø 35-43x25 mm	RM
SPL-CM-14B-10MM	0.165	0.007	0.01	0.04		0.36	0.03		0.04		Ø 35-43x10 mm	RM
SPL-CM-14B-25MM	0.165	0.007	0.01	0.04		0.36	0.03		0.04		Ø 35-43x25 mm	RM
SPL-LA-2D-25MM	0.24	0.05	0.04	0.085		0.3	0.29		0.003		Ø 35-43x25 mm	RM
SPL-LA-3E-25MM	0.077	0.009	0.024	0.026		0.135	0.1		0.13		Ø 35-43x25 mm	RM
SPL-SP-5B-10MM	0.09	0.09	0.07	0.08		0.35	0.62				Ø 35-43x10 mm	RM
SPL-SP-5B-25MM	0.09	0.09	0.07	0.08		0.35	0.62				Ø 35-43x25 mm	RM
SPL-SP-6A-10MM				0.01		0.008	0.02				Ø 35-43x10 mm	RM
SPL-SP-6A-25MM				0.01		0.008	0.02				Ø 35-43x25 mm	RM
SPL-SST-1A		0.002	0.002	0.11		0.004					Ø 37x25 mm	RM
SPL-SST-2A		0.015	0.008	0.055		0.016	0.019	0.011	0.017		Ø 37x25 mm	RM
SPL-SST-3A		0.013		0.015		0.009	0.016	0.011			Ø 37x25 mm	RM
SPL-SST-4A		0.008	0.003	0.025		0.035	0.026	0.002	0.003		Ø 37x25 mm	RM

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CKD - Silicon Steel

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	As	B	Bi
CKD-183C	Steel, unalloyed/low alloyed	0.049	1.03	1.76	0.009	0.012	0.205	1.1	0.036	0.575	0.004	0.12	0.15	0.005	0.0005	
CKD-183D	Steel, unalloyed/low alloyed	0.048	1.02	1.75	0.009	0.012	0.204	1.09	0.036	0.571	0.004	0.119	0.15	0.005		0.0005
CKD-183E	Steel, unalloyed/low alloyed	0.049	1.03	1.76	0.009	0.013	0.205	1.1	0.036	0.575	(0.004)	0.119	0.149	(0.005)	0.0005	
CKD-188A	Steel, unalloyed/low alloyed	0.332	0.775	0.169	0.006	0.033	5.11	0.445	1.28	0.057	0.802	0.006	0.093	(0.005)	0.0047	
CKD-188AH	Steel, unalloyed/low alloyed	0.332	0.775	0.169	0.006	0.033	5.11	0.445	1.28	0.057	0.802	0.006	0.093	(0.005)	0.0047	

Analyte - Measured Values (continued)

Code	Fe	N	Nb	Pb	Sb	Sn	Ta	Ti	W	Zr	Size	Type
CKD-183C		0.004	0.006		0.001	0.053		0.003	0.353	0.081	Ø 44x25 mm	CRM
CKD-183D		0.0036	0.006		0.001	0.051		0.003	0.354	0.077	Ø 44x25 mm	CRM
CKD-183E		0.004	(0.006)		(0.001)	0.053		(0.003)	0.351	0.08	Ø 44x25 mm	CRM
CKD-188A	(90.53)	0.0076	0.122	0.001	0.006	0.005	0.022	0.034	0.091	0.052	Ø 44x25 mm	CRM
CKD-188AH	(90.53)	0.0076	0.122	0.001	0.006	0.005	0.022	0.034	0.091	0.052	Ø 44x13 mm	CRM

VASKUT - Silicon Steel

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	As	Nb	Sb
VASKUT-A11/1	Steel, low alloyed	0.043	1.46	0.21	0.011	0.0137	0.02	0.04	1.08	0.047	0.46		0.02		0.16	(<0.001)
VASKUT-A12	Steel, low alloyed	0.031	1.19	0.31	0.014	0.082	1.25	2.43	0.47	0.18	0.042	0.012	0.18	0.007	0.03	0.013
VASKUT-B1/1	Steel, low alloyed	0.97	1.58	0.205	0.017	0.032	1.66	3.96		0.14						
VASKUT-T4/1	Dynamo Steel	0.17	1.97	0.23	0.012	0.041	0.24	0.077		0.16						

Analyte - Measured Values (continued)

Code	Sn	Ti	Zr	Size	Type
VASKUT-A11/1	0.002	0.17		Ø 32-35x19 mm	CRM
VASKUT-A12		0.05		Ø 32-35x19 mm	CRM
VASKUT-B1/1			0.001	Ø 32-35x20 mm	CRM
VASKUT-T4/1		<0.005		Ø 32-35x19 mm	CRM

Miscellaneous - Silicon Steel

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	As	B	Ca
MQ-C046	Low alloy steel (DSZU 083.33-2013)	0.785	1.21	0.257	0.025	0.0153	2.67	1.47	0.69	0.211	0.72	0.006	0.47	0.002	(0.0004)	0.0007
MQ-C047	Low alloy steel (DSZU 083.33-2013)	0.975	3.95	0.402	0.023	0.0052	4.44	0.78	0.96	0.117	1.84	0.066	0.051	0.0077	0.0006	0.0013
BR ST3	Steel, unalloyed/low alloyed	0.252	1.16	1.85	0.018	0.007	0.217	1.01	0.048	0.52	0.083	0.103	0.013	0.023	0.004	

Analyte - Measured Values (continued)

Code	N	Nb	Pb	Sb	Sn	Ti	W	Zr	Size	Type
MQ-C046	0.0099	(0.005)			0.0033	0.115	0.47		Ø 40x25 mm	CRM
MQ-C047	0.0164	0.021			0.0093	0.059	1.88		Ø 40x25 mm	CRM
BR ST3	0.0076	0.007	(0.001)	(0.007)	0.083	0.002	0.386	0.002	Ø 45x30 mm	RM

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ARMI - High Nickel Steel

		Analyte - Measured Value														
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Mg	As	B
IARM-24B-G	Stainless Steel, Invar 36 / UNS K93601	0.053	0.28	0.82	0.009	0.001	0.121	35.86	0.011	0.052	<0.005	0.036	0.002		<0.005	(0.001)
IARM-24B-X	Stainless Steel, Invar 36 / UNS K93601	0.053	0.28	0.82	0.009	0.001	0.121	35.86	0.011	0.052	<0.005	0.036	0.002		<0.005	(0.001)
IARM-99B-X	Stainless Steel, Alloy C-300 / UNS K93120	0.005	0.17	0.036	0.005	0.0005	0.081	18.46	4.88	0.094	0.012	9.24	0.095			0.0026
IARM-242A-G	Stainless Steel, Aermet 100 / UNS K92580	0.24	0.02	0.018	0.002	0.0004	3	11.1	1.21	0.007	0.01	13.5	0.004			(0.0005)
IARM-242A-X	Stainless Steel, Aermet 100 / UNS K92580	0.24	0.02	0.018	0.002	0.0004	3	11.1	1.21	0.007	0.01	13.5	0.004			(0.0005)
IARM-302B-G	Stainless steel, Alloy 254SMO / UNS S31254	0.0226	0.56	0.93	0.0256	0.0007	20.33	17.7	6.24	0.701	0.052	0.072	0.0159	0.0009	(0.009)	0.0027
IARM-302B-X	Stainless steel, Alloy 254SMO / UNS S31254	0.0226	0.56	0.93	0.0256	0.0007	20.33	17.7	6.24	0.701	0.052	0.072	0.0159	0.0009	(0.009)	0.0027

	Analyte - Measured Values (continued)															
Code	Ca	Fe	N	Nb	Pb	Sb	Se	Sn	Ta	Ti	W	Zn	Zr	Size	Form	Type
IARM-24B-G		62.6	0.0017	<0.01			0.19	0.0018	<0.005	0.002	<0.04		<0.005	Ø 38x19 mm	W	CRM
IARM-24B-X		62.6	0.0017	<0.01			0.19	0.0018	<0.005	0.002	<0.04		<0.005	Ø 38x3 mm	W	CRM
IARM-99B-X			0.0011	(0.005)				(0.003)		0.74	0.016			Ø 38x3 mm	W	CRM
IARM-242A-G			0.0003	0.004				(0.001)	0.008	0.009	<0.01			Ø 38x19 mm	W	CRM
IARM-242A-X			0.0003	0.004				(0.001)	0.008	0.009	<0.01			Ø 38x3 mm	W	CRM
IARM-302B-G	(0.0031)		0.18	0.012	(0.001)	(0.0018)	(0.0006)	0.0075	0.004	0.0031	0.025	(<0.01)	(<0.01)	Ø 38x19 mm	W	CRM
IARM-302B-X	(0.0031)		0.18	0.012	(0.001)	(0.0018)	(0.0006)	0.0075	0.004	0.0031	0.025	(<0.01)	(<0.01)	Ø 38x3 mm	W	CRM

ECRM - High Nickel Steel

		Analyte - Measured Values										
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co
ECRM-S 379-1-D	Stainless Steel (similar to 1.4563) - disc	0.0121	0.393	1.804	0.0166	0.0006	26.79	30.83	3.29	0.984	0.0663	0.039
ECRM-S-379-1-D-45	Stainless Steel	0.0121	0.393	1.804	0.0166	0.0006	26.79	30.83	3.29	0.984	0.0663	0.039

	Analyte - Measured Values (continued)															
Code	Al	Ce	Mg	Ag	As	B	Bi	Ca	Fe	Ga	N	Nb	Nd	Pb	Sb	Sn
ECRM-S 379-1-D	0.00246	0.00001	0.0006	0.00007	0.0018	0.0019	0.000001	0.0033	35.6	0.0023	0.055	0.0028	0.00006	0.000038	0.00057	0.0021
ECRM-S-379-1-D-45	0.00246	0.00001	0.0006	0.00007	0.0018	0.0019	0.000001	0.0033	35.6	0.0023	0.055	0.0028	0.00006	0.000038	0.00057	0.0021

	Analyte - Measured Values (continued)							
Code	Ta	Te	Ti	W	Zr		Size	Type
ECRM-S 379-1-D	0.000004		0.0014	0.0091	0.00033		Ø 38x25 mm	CRM
ECRM-S-379-1-D-45		0.000004	0.0014	0.0091	0.00033		Ø 45x25mm	CRM

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NIST - High Nickel Steel

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Ag	As	B	Bi
NIST-1158	Specialty steel, high Nickel (N36)	0.025	0.1936	0.468	0.004	0.005	0.062	36.03	0.01	0.039	0.001	0.008					
NIST-1159	Elec/Mag Ni-Fe	0.007	0.32	0.3	0.003	0.003	0.06	48.2	0.01	0.038		0.022					
NIST-1230	High temp. alloy, A286	0.044	0.411	0.64	0.023	0.0007	14.8	24.2	1.18	0.14	0.23	0.15	0.24			0.0055	
NIST-1246	Incoloy 800	0.082	0.18	0.91	0.018	0.001	20.1	30.8	0.36	0.49	(0.040)	0.076	0.30	<0.0001	(0.004)	<0.001	<0.0001
NIST-1247	Incoloy 825	0.021	0.3234	0.38	0.018	0.002	23.4	43.5	2.73	1.75	(0.048)	0.089	0.060	<0.0001	(0.003)	0.002	<0.0001

Analyte - Measured Values (continued)

Code	Fe	Ga	N	Nb	Pb	Se	Ta	Te	Ti	Tl	W		Size	Type
NIST-1158													Ø 32x19 mm	CRM
NIST-1159	51												Ø 31x19 mm	CRM
NIST-1230									2.12				Ø 32x19 mm	CRM
NIST-1246	46.2	(0.004)	(0.018)	(0.09)	(<0.0001)	<0.0001	(<0.001)	<0.0001	0.32	<0.0001	(<0.004)		Ø 35x19 mm	CRM
NIST-1247	26.5	(0.011)	(0.017)	(0.46)	(<0.0001)	<0.0001	(<0.001)	<0.0001	0.75	<0.0001	(0.005)		Ø 35x19 mm	CRM

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MBH - High Nickel Steel

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Mg	B	N
MBH-13X 14935 T	Maraging Steels	0.0105	0.441	0.494	0.036	0.055	0.745	18.96	5.61			7.17	0.007			0.0102
MBH-13X 31254 A	High nitrogen stainless steel	0.0185	0.4	0.59	0.0191	0.0011	20.11	18.34	6.13	0.575	0.0595	0.125	0.0134		0.0025	0.205
MBH-14X 93603 A	High nickel, Invar/UNS K93603	0.0101	0.153	0.339	0.005	0.0045	0.024	35.79	0.0145	0.046		0.0974	0.0404			0.0057
MBH-14X 94100 A	High-Ni Calibration series	0.0055	0.103	0.443	0.0051	0.0027	0.0265	41.0	0.0053	0.0628		0.0208		0.0021		0.0016
MBH-14X FENI6 A	High-Ni Calibration series	0.1	0.075	0.33	0.0155	0.028	0.073	6.08		0.028			0.025			0.0055
MBH-14X FENI8 A	High-Ni Calibration series	0.097	0.097	0.33	0.015	0.029	0.25	8.1		0.03			0.029			0.0061
MBH-14X FENI10 A	High-Ni Calibration series	0.095	0.061	0.272	0.015	0.027	0.07	10.12		0.029			0.025			0.0055
MBH-14X FENI20 B	High-Ni Calibration series	0.0137	1.12	0.0284	0.010	0.0089	0.102	20.06		0.074		0.994	0.018			
MBH-14X FENI25 B	High-Ni Calibration series	0.0084	0.019	0.0121	0.011	0.58	0.0334	25.10		0.035		0.746	0.035			
MBH-14X FENI35 D	Iron-Nickel Alloy	0.032	0.25	0.29	0.04	0.15	0.39	34.05		0.034		0.41				
MBH-14X FENI40 B	High-Ni Calibration series	0.0450	0.03	0.081	0.0185	1.09	0.0446	40.57		0.0517		0.858	1.18			
MBH-14X FENI45 B	High-Ni Calibration series	0.0045	0.0567	0.0149	0.0416	0.038	0.048	45.20		0.078		0.654	0.552			
MBH-14X FENI45 C	Iron-Nickel Alloy	0.005	0.75		0.03	0.003	0.07	45.0		0.085		0.6	0.95			
MBH-14X FENI50 C	Iron-Nickel Alloy	0.025	0.15		0.015	0.14	0.07	51.4		0.09		0.42	0.3			
MBH-23X 8004 E	Incoloy 800 - Fe/Ni/Cr Alloy	0.06	0.53	0.70			19.72	31.8	0.33	0.30		0.53	0.31			
MBH-23X DS4 E	Incoloy 800 DS - Fe/Ni/Cr Alloy	0.06	2.01	1.02			16.83	37.15	0.29	0.30		0.48	0.037			
MBH-23X DS5 E	Incoloy 800 DS - Fe/Ni/Cr Alloy	0.080	1.98	1.04			18.64	36.57	0.30	0.30		0.50	0.083			

Analyte - Measured Values (continued)

Code	Nb	Ti	W	Zr	Size	Form	Type
MBH-13X 14935 T		0.106			Ø 40x15 mm	CC	CRM
MBH-13X 31254 A			0.017		Ø 40x15 mm	W	CRM
MBH-14X 93603 A		0.0011		0.0009	Ø 38x15 mm	W	CRM
MBH-14X 94100 A	(0.01)	0.0011	0.0017		Ø 40x15 mm	W	prov.
MBH-14X FENI6 A					Ø 40x15 mm	W	prov.
MBH-14X FENI8 A					Ø 40x15 mm	W	prov.
MBH-14X FENI10 A					Ø 40x15 mm	W	prov.
MBH-14X FENI20 B					Ø 40x15 mm	CC	CRM
MBH-14X FENI25 B					Ø 40x15 mm	CC	CRM
MBH-14X FENI35 D					Ø 40x15 mm	CC	prov.
MBH-14X FENI40 B					Ø 40x15 mm	CC	CRM
MBH-14X FENI45 B					Ø 40x15 mm	CC	CRM
MBH-14X FENI45 C					Ø 40x15 mm	CC	prov.
MBH-14X FENI50 C					Ø 40x15 mm	CC	prov.
MBH-23X 8004 E		0.34			Ø 40x15 mm	C	RM
MBH-23X DS4 E		0.20			Ø 40x15 mm	C	RM
MBH-23X DS5 E		0.17			Ø 40x15 mm	C	RM

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BS - High Nickel Steel

		Analyte - Measured Values													
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Ce	Mg
BS-160A	Kovar stainless steel	0.0064	0.158	0.180	0.0007	0.0002	0.0138	29.6	0.0100	0.026	0.0008	17.0	0.088		0.0032
BS-161A	300SS Maraging Steel	0.004	0.032	0.031	0.004	0.0007	0.12	18.4	4.82	0.22	0.031	9.22	0.14		
BS-186A	Invar 36 High Alloy Steel	0.04	0.19	0.72	0.008	0.0053	0.16	35.86	0.0032	0.016	0.0012	0.028	(0.001)		
BS-187A	Alloy 20 High Alloy Steel	0.022	0.26	0.52	0.017	0.0025	19.75	33.06	2.06	3.1	0.1	0.32	0.009	0.025	
BS-187D	High alloy steel	0.0337	0.669	0.938	0.0155	0.0021	19.91	32.3	2.17	3.52	0.073	0.089	0.0164		(0.0009)
BS-189A	AL6XN Iron/Nickel Alloy	0.015	0.3	0.56	0.02	<0.005	20	23.8	6.1	0.18	0.055	0.1	<0.05		
BS-800	Nickel Alloy	0.073	0.56	0.789	0.0161	0.00036	19.9	31.29	0.195	0.323	0.071	0.054	0.279		(0.002)
BS-800A	Nickel alloy, Incoloy 800, N08800	0.075	0.361	0.883	0.013	(0.0007)	21.09	33.3	0.117	0.244	0.058	0.069	0.362		0.0022

	Analyte - Measured Values (continued)																
Code	As	B	Ca	Fe	N	Nb	Pb	Sb	Se	Sn	Ta	Ti	W	Zr		Size	Type
BS-160A	0.0011	0.0010	0.0004	52.9	0.0026	0.0014	0.00006	0.0004		0.0024	0.0001	0.026	0.0001	0.0048		Ø 38x19 mm	CRM
BS-161A	(0.002)	0.0023	(0.0008)		(0.002)	(0.004)				(0.0015)	(0.03)	0.65	(0.008)	(0.002)		Ø 38x12 mm	CRM
BS-186A					0.0026	(<0.002)			0.229	0.002		(<0.003)	(0.01)			Ø 35-41x12 mm	RM
BS-187A		0.0022			0.0157	0.57				0.003	<0.002	0.002	0.02			Ø 35-41x12 mm	RM
BS-187D	(0.0035)	0.0026	0.0063	(39.6)	0.046	0.621	0.0019	(0.0011)		0.0085	0.0008	0.0027	0.086	(0.0012)		Ø 38x19 mm	CRM
BS-189A			<0.005	(48.6)	0.2	0.13				<0.05		<0.05	0.03	<0.05		Ø 38x19 mm	CRM
BS-800	0.0036	0.0032	0.0003	46	0.0112	0.0183	0.00004	0.00046		0.0026	(0.001)	0.469	0.0056	0.0018		Ø 38x12 mm	CRM
BS-800A	(0.002)	0.0018	(0.000006)	42.7	0.0126	0.021	(0.001)	(0.0005)		0.0041	(0.005)	0.526	(0.03)	(0.002)		Ø 38x19 mm	CRM

NCS Nickel Steel sets

		Analyte - Measured Values												
Code	Description	C	Si	Mn	P	S	Cr	Cu	Al	Fe	Ti		Size	Type
NCS HS16702-1	Steel GH30	0.241	0.311	0.156	0.001	0.0145	17.5	0.082	0.086	0.229	0.638		Ø 30x42 mm	CRM
NCS HS16702-2	Steel GH30	0.137	0.52	0.256	0.0152	0.0051	20.56	0.1	0.267	1.579	0.214		Ø 30x42 mm	CRM
NCS HS16702-3	Steel GH30	0.1	0.324	0.397	0.0063	0.0062	19.37	0.146	0.237	1.163	0.303		Ø 30x42 mm	CRM
NCS HS16702-4	Steel GH30	0.23	0.895	0.0615	0.0015	0.0034	18.34	0.199	0.069	1.78	0.651		Ø 30x42 mm	CRM
NCS HS16702-5	Steel GH30	0.189	0.811	0.777	0.002	0.0036	16.81	0.245	0.065	0.702	0.495		Ø 30x42 mm	CRM

		Analyte - Measured Values															
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Al	Ce	B	Ti	W	Zr	Size	Type
NCS HS29708-1	Ni-W-Steel GH915 just as set of 5	0.066	0.298	0.17	(0.006)	(0.012)	12.46	43.5	1.54	2.2	0.0054	0.023	4.34	3.81	(0.036)	Ø 35x48 mm	CRM
NCS HS29708-2	Ni-W-Steel GH915 just as set of 5	0.082	0.502	0.061	(0.012)	(0.003)	11.56	44.41	1.22	2.14	0.053	(0.034)	4.04	4.14	(0.026)	Ø 35x48 mm	CRM
NCS HS29708-3	Ni-W-Steel GH915 just as set of 5	0.102	0.543	0.016	(0.018)	(0.002)	10.14	45.6	0.925	2.75	0.066	0.044	3.68	4.43	0.017	Ø 35x48 mm	CRM
NCS HS29708-4	Ni-W-Steel GH915 just as set of 5	0.041	0.123	0.415	(0.001)	(0.007)	14.01	42.05	1.53	1.85		0.014	4.8	3.41	(0.015)	Ø 35x48 mm	CRM
NCS HS29708-5	Ni-W-Steel GH915 just as set of 5	0.106	0.071	0.564	(0.001)	(0.014)	12.08	44.01	2.02	2.79			3.79	4.62		Ø 35x48 mm	CRM

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SPL - High Nickel Steel

		Analyte - Measured Values																
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	As	Nb	Sn	Ti	W
SPL-SL-6A-10MM	Alloy steel QCM	0.17	3.07	0.24	0.015	0.029	6.8	32.3	0.13	0.22	0.15	0.69	0.26	0.004	0.36	0.006	1.8	1.74
SPL-SL-6A-25MM	Alloy steel QCM	0.17	3.07	0.24	0.015	0.029	6.8	32.3	0.13	0.22	0.15	0.69	0.26	0.004	0.36	0.006	1.8	1.74
SPL-SP-7A-10MM	Special steel QCM	0.006	0.036	0.08	0.007	0.01	0.01	47.3	0.01	0.08	0.001	0.003	0.003				0.004	
SPL-SP-7A-25MM	Special steel QCM	0.006	0.036	0.08	0.007	0.01	0.01	47.3	0.01	0.08	0.001	0.003	0.003				0.004	

Code		Size	Type
SPL-SL-6A-10MM		Ø 35-43x10 mm	RM
SPL-SL-6A-25MM		Ø 35-43x25 mm	RM
SPL-SP-7A-10MM		Ø 35-43x10 mm	RM
SPL-SP-7A-25MM		Ø 35-43x25 mm	RM

Miscellaneous - High Nickel Steel

		Analyte - Measured Values															
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	N	Nb	Ti	Size	Type
NILAB-500HA(D)	Steel, high alloyed	0.041	0.72	1.541	0.024	0.012	16.93	11	2.73	0.182	0.074	0.139	0.1154	0.023		Ø 38x20 mm	CRM
VASKUT-S22	Stainless Steel aust.	0.014	0.61	0.34	0.009	0.008	1	28.2	0.82	0.02					0.13	Ø 32-35x19 mm	CRM

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ARMI - Maraging Steel

		Analyte - Measured Values											
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al
IARM-98B-G	Stainless Steel, Kovar / UNS K94610	0.007	0.17	0.18	0.002	0.0007	0.012	29.4	0.01	0.028	(0.003)	17	0.07
IARM-98B-X	Stainless Steel, Kovar / UNS K94610	0.007	0.17	0.18	0.002	0.0007	0.012	29.4	0.041	0.028	(0.003)	17	0.07
IARM-99B-X	Stainless Steel, Alloy C-300 / UNS K93120	0.005	0.17	0.036	0.005	0.0005	0.081	18.46	4.88	0.094	0.012	9.24	0.095
IARM-99C-G	Stainless & High Temperature Steel, Alloy C-300 / K93120	0.0038	0.02	0.036	0.004	0.0004	0.079	18.49	4.85	0.088	0.008	9.3	0.091
IARM-99C-X	Stainless & High Temperature Steel, Alloy C-300 / K93120	0.0038	0.02	0.036	0.004	0.0004	0.079	18.49	4.85	0.088	0.008	9.3	0.091
IARM-242A-G	Stainless Steel, Aermet 100 / UNS K92580	0.24	0.02	0.018	0.002	0.0004	3	11.1	1.21	0.007	0.01	13.5	0.004
IARM-242A-X	Stainless Steel, Aermet 100 / UNS K92580	0.24	0.02	0.018	0.002	0.0004	3	11.1	1.21	0.007	0.01	13.5	0.004
IARM-308A-G	Stainless Steel, Alloy C-250 / UNS K92890	0.003	0.014	0.019	0.004	0.0005	0.023	18.53	4.78	0.018	0.01	7.8	0.097
IARM-308A-X	Stainless Steel, Alloy C-250 / UNS K92890	0.003	0.014	0.019	0.004	0.0005	0.023	18.53	4.78	0.018	0.01	7.8	0.097
IARM-309A-G	Stainless Steel, Alloy C-350 / UNS K93540	0.0059	0.02	0.018	0.004	0.0006	0.053	18.4	4.71	0.023	0.01	12.3	0.11
IARM-309A-X	Stainless Steel, Alloy C-350 / UNS K93540	0.0059	0.02	0.018	0.004	0.0006	0.053	18.4	4.71	0.023	0.01	12.3	0.11
IARM-326A-G	Cobalt Alloy, Permendur 2V / UNS R30005	(0.002)	0.029	0.003	0.0013	0.0011	(0.002)	0.037	(0.002)	(0.002)	1.94	48.4	(0.003)
IARM-326A-X	Cobalt Alloy, Permendur 2V / UNS R30005	(0.002)	0.029	0.003	0.0013	0.0011	(0.002)	0.037	(0.002)	(0.002)	1.94	48.4	(0.003)

	Analyte - Measured Values (continued)																	
Code	Mg	As	B	Ca	Fe	N	Nb	Pb	Se	Sn	Ta	Ti	W	Zn	Zr	Size	Form	Type
IARM-98B-G	0.004	<0.002	0.001	<0.0005	52.9	0.0024	0.002	<0.0005		0.002	<0.05	0.03	(0.02)	<0.0005	<0.01	Ø 38x19 mm	W	CRM
IARM-98B-X	0.004	<0.02	0.001	<0.0005	52.9	0.0024	0.002	<0.0005		0.002	<0.05	0.03	(0.02)	<0.0005	<0.01	Ø 38x3 mm	W	CRM
IARM-99B-X			0.0026			0.0011	(0.005)			(0.003)		0.74	0.016			Ø 38x3 mm	W	CRM
IARM-99C-G	(0.001)	(<0.01)	0.0023	(<0.01)		0.0013	0.004		(0.001)	0.002	(<0.02)	0.738	0.012	(<0.01)	0.006	Ø 38x19 mm		prov.
IARM-99C-X	(0.001)	(<0.01)	0.0023	(<0.01)		0.0013	0.004		(0.001)	0.002	(<0.02)	0.738	0.012	(<0.01)	0.006	Ø 38x3 mm		prov.
IARM-242A-G			(0.0005)			0.0003	0.004			(0.001)	0.008	0.009	<0.01			Ø 38x19 mm	W	CRM
IARM-242A-X			(0.0005)			0.0003	0.004			(0.001)	0.008	0.009	”0.01”			Ø 38x3 mm	W	CRM
IARM-308A-G			0.0029			0.0013	0.003			0.001	<0.01	0.46	0.01		0.01	Ø 38x19 mm	W	CRM
IARM-308A-X			0.0029			0.0013	0.003			0.001	<0.01	0.46	0.01		0.01	Ø 38x3 mm	W	CRM
IARM-309A-G			0.0032			0.001	0.004			(0.001)	(0.006)	1.47	0.01		0.008	Ø 38x19 mm	W	CRM
IARM-309A-X			0.0032			0.001	0.004			(0.001)	(0.006)	1.47	0.01		0.008	Ø 38x3 mm	W	CRM
IARM-326A-G	(0.001)	<0.005	(0.001)		49.6	0.0004	0.038			<0.001	0.01	(0.002)	(0.001)		0.002	Ø 38x19 mm	W	CRM
IARM-326A-X	(0.001)	<0.005	(0.001)		49.6	0.0004	0.038			<0.001	0.01	(0.002)	(0.001)		0.002	Ø 38x3 mm	W	CRM

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ECRM - Maraging Steel

		Analyte - Measured Values																
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	Co	Al	B	N	Ti	Zr	Size	Type
ECRM-B 285-2-D	Maraging steel - disc	0.0018	0.0117	0.0168	0.0053	0.0025	0.0236	18.07	4.99	0.0094	7.76	0.1067	0.0009	0.0007	0.52	0.005	Ø 38x30 mm	CRM

MBH - Maraging Steel

		Analyte - Measured Values															
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Co	Al	Ce	N	Ti	Size	Form	Type
MBH-13X 14934 Q	Maraging Steels	0.0254	0.502	0.254	0.024	0.0288	0.388	17.6	4.22	9.03	0.15		0.006	0.694	Ø 40x15 mm	CC	CRM
MBH-13X 14935 T	Maraging Steels	0.0105	0.441	0.494	0.036	0.055	0.745	18.96	5.61		7.17	0.007	0.0102	0.106	Ø 40x15 mm	CC	CRM

BS - Maraging Steel

		Analyte - Measured Values																
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	As	B	Ca	N	Nb
BS-85D	321 Stainless Steel	0.049	0.55	1.69	0.025	0.024	17.09	10.03	0.59	0.45	0.134	0.97	0.13	0.006	0.0006	0.0004	0.016	0.065
BS-161A	300SS Maraging Steel	0.004	0.032	0.031	0.004	0.0007	0.12	18.4	4.82	0.22	0.031	9.22	0.14	(0.002)	0.0023	(0.0008)	(0.002)	(0.004)

	Analyte - Measured Values (continued)								
Code	Sb	Sn	Ta	Ti	W	Zr		Size	Type
BS-85D	0.001	(0.006)		0.48	0.06			Ø 35-45x12 mm	RM
BS-161A		(0.0015)	(0.03)	0.65	(0.008)	(0.002)		Ø 38x12 mm	CRM

CPT - Maraging Steel

		Analyte - Measured Values																	
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	B	Fe	Nb	Ta	Ti	W
CPT-250	Steel maraging	0.002	0.008	0.006	0.003	0.002	0.008	18.44	4.88	0.008		7.54	0.058	0.0024				0.41	
CPT-300	Steel maraging	0.005	0.03	0.032	0.005	0.004	0.034	18.51	4.97	0.047		9.07	0.12	0.002				0.69	
CPT-ISO070A	High Alloy Steel Disc	0.014	0.32	0.015	0.003	<0.001	5.54	24.47	0.006	0.01	0.043	29	0.47	0.0038	34.66	4.63	<0.01	0.82	<0.01

Code		Size	Type
CPT-250		Ø 35x20 mm	RM
CPT-300		Ø 35x20 mm	RM
CPT-ISO070A		Ø 30-35x20-25 mm	RM

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IMZ - Maraging Steel

		Analyte - Measured Values																	
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	As	B	N	Nb	Sn	Ti	W
IMZ-520	Maraging Steel	0.011	0.094	0.070	0.0043	0.019	0.242	10.10	4.92	0.080	4.03	17.66		(0.001)	0.0105	(0.008)	(0.002)	(0.007)	4.90
IMZ-521	Maraging Steel	0.015	0.072	0.039	0.0031	0.0058	0.040	8.63	4.84	0.027	3.97	20.25			0.0113		(0.002)		5.23
IMZ-522	Maraging Steel	0.0088	0.048	0.032	(0.003)	0.0043	0.022	11.47	6.45	0.019	2.21	18.72			0.0045	(0.008)	(0.001)	0.54	2.25
IMZ-523	Maraging Steel	0.0098	0.043	0.051	(0.004)	0.0039	0.048	15.94	6.67	0.059	2.01	14.44			0.0037	(0.008)	(0.001)	0.70	1.87
IMZ-524	Maraging Steel	0.012	0.13	0.68	(0.004)	0.004	0.085	13.75	4.95	0.024	3.02	12.25	(0.003)		0.0038	(0.007)		0.85	1.84

Code		Size	Type
IMZ-520		Ø 38x20mm	CRM
IMZ-521		Ø 38x20mm	CRM
IMZ-522		Ø 38x20mm	CRM
IMZ-523		Ø 38x20mm	CRM
IMZ-524		Ø 38x20mm	CRM

MQ (DSZU) - Maraging Steel

		Analyte - Measured Values															
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	N	Nb	Ti	W
MQ-C51	DSZU - High-Temperature Steel	0.2	0.24	0.4	0.017	0.036	11	1.78	0.72		0.08	4.7		0.09	0.12		0.32
MQ-C52	DSZU - High-Temperature Steel	0.14	0.17	0.37	0.02	0.028	11.6	1.55	1.17		0.03	3.8			0.31		0.95
MQ-C53	DSZU - High-Temperature Steel	0.1	0.25	0.54	0.05	0.031	15	0.96	1.88		0.25	5.9			0.12		0.58
MQ-C54	DSZU - High-Temperature Steel	0.07	0.54	0.55	0.04	0.02	18.4	1.95	1.45		0.4	5.3		0.13	0.41		0.62
MQ-C55	DSZU - High-Temperature Steel	0.23	0.7	0.69	0.033	0.023	14.1	2.34	1.25		0.16	6.5		0.11	0.29		1.1
MQ-C091	DSZU - Maraging Steel	0.035	(0.09)	0.092	(0.006)	(0.011)	0.12	18.2	4.98	(0.12)		8.07	0.05			0.81	
MQ-C092	DSZU - Maraging Steel	0.015	(0.1)	0.27	(0.006)	(0.009)	0.23	20.12	5.5	(0.16)		5.21	(0.006)			(0.008)	
MQ-C093	DSZU - Maraging Steel	0.013	(0.1)	0.32	(0.006)	(0.007)	0.42	15.8	3.79	(0.12)		12.08	0.17			1.56	

Code		Size	Type
MQ-C51		Ø 42x25 mm	CRM
MQ-C52		Ø 42x25 mm	CRM
MQ-C53		Ø 42x25 mm	CRM
MQ-C54		Ø 42x25 mm	CRM
MQ-C55		Ø 42x25 mm	CRM
MQ-C091		Ø 40x ~17 mm	CRM
MQ-C092		Ø 40x ~17 mm	CRM
MQ-C093		Ø 40x ~17 mm	CRM

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High Alloy Steel

Code	Description	Analyte - Measured Values C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	As	B
SPL-SP-4B-10MM	Special steel QCM	0.31	1.51	1.36	0.027	0.008	20.8	35.8	0.02	0.04			0.025		
SPL-SP-4C	Special steel RM	0.34	1.75	1.66	0.02	0.01	22.1	37.1	0.105	0.056	0.059	0.065	0.011		
SPL-SP-8B-10MM	Special steel QCM	2.37	1.4	0.86	0.022	0.012	37.6	2.72	0.1	0.075	0.13	0.075	0.13	0.05	0.03
SPL-SP-8B-25MM	Special steel QCM	2.37	1.4	0.86	0.022	0.012	37.6	2.72	0.1	0.075	0.13	0.075	0.13	0.05	0.03
BAS-SS-CRM 479	Niobium Stabilised Stainless Steel	0.0529	0.553	0.68	0.0029	0.003	19.922	24.87	(0.003)	0.0052	0.0052	(0.002)	(0.013)	(0.002)	(<0.00005)
NILAB-501HA(D)	Steel, high alloyed	0.014		0.858	0.02	0.003	19.79	17.69	6.14	0.761	0.044	0.159	0.003		

Code	Analyte - Measured Values (continued) Fe	N	Nb	Sn	Ti	W		Size	Type
SPL-SP-4B-10MM								Ø 35-43x10 mm	RM
SPL-SP-4C	36.6	0.04	0.022		0.031	0.01		Ø 35-43x25 mm	RM
SPL-SP-8B-10MM			0.04	0.06	0.13	0.05		Ø 35-43x10 mm	RM
SPL-SP-8B-25MM			0.04	0.06	0.13	0.05		Ø 35-43x25 mm	RM
BAS-SS-CRM 479		0.0057	0.625		0.0306			Ø 38 x 19 mm	CRM
NILAB-501HA(D)		0.2243	0.007					Ø 38x20 mm	CRM

Ca Treated Steel

Code	Description	Analyte - Measured Values C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Mg	As	B	Ca
BS-54G	Low Alloy Steel	0.658	0.5	0.82	0.011	0.012	0.16	0.163	0.019	0.151	0.012	0.0019	0.018		(<0.005)	(<0.0005)	(0.001)
BS-2931B	1018 Steel	0.159	0.207	0.788	0.0108	0.0292	0.08	0.083	0.0329	0.098	0.0014	0.0056	0.0191	0.0001	0.0033	0.0002	0.0002
BS-3941	1040 Carbon Steel	0.41	0.257	0.8	0.016	0.023	0.068	0.019	0.006	0.053	0.003	0.004	0.002		0.003		0.0013
BS-CSN2C	Special steel with Ca	0.469	0.17	0.6	0.012	0.0305	0.072	0.071	(0.006)	0.073							0.0033
CTIF-TL-1668	Trip 800	0.2146	1.645	1.643	0.0137	0.0012	0.0173	0.0164	0.0014	0.0108	0.0016	0.0031	0.0371	0.0003	0.0016	0.00024	0.0019
BAS-SS-CRM 115	Treated Steel	0.6224	0.2078	0.682	0.0123	0.00093	0.0198	0.0196	(0.003)	(0.009)	(0.001)	(0.006)	0.0527			(<0.0001)	0.0058
BAS-SS-CRM 116	Calcium treated Steel	0.617	0.201	0.6756	0.0092	0.00176	0.0141	0.0069					0.0587				0.0036

Code	Analyte - Measured Values (continued) Fe	N	Nb	Pb	Sb	Sn	Ta	Ti	W	Zn	Zr		Size	Type
BS-54G		<0.0004	0.024			0.026		0.015	(<0.03)				Ø 35-44x19 mm	CRM
BS-2931B	98.5	0.0076	0.0011	(0.00004)	0.0012	0.0062	(0.0004)	0.0008	0.0007		0.0005		Ø 38x19 mm	CRM
BS-3941		0.007		0.001		(0.002)		(0.002)					Ø 35-44x19 mm	CRM
BS-CSN2C		0.0173											100 g	RM
CTIF-TL-1668		0.0043	0.0002	0.0007	0.0003	0.0047		0.0032		0.0008	0.0003		Ø 30x25 mm	RM
BAS-SS-CRM 115		0.0067		(0.0002)		(0.002)		0.0027		(0.0006)			Ø 44x19 mm	CRM
BAS-SS-CRM 116				0.00012				0.00171					Ø 38x19 mm	CRM

Values listed in mass %: ( ) Uncertified Value,

C=Cast, CC=Chill Cast, CCC=Continuous Chill Cast, CW=Concast/Wrought, W=Wrought, SC=Single Cast, HIP=Hot Isostatically-pressed Powder

Free-cutting Steel

		Analyte - Measured Values														
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	As	B	N
MBH-14X MSFM1 L	Free-Machining Steel (Chill Cast)	0.143	0.404	1.155	0.0689	0.414	0.89	0.147	0.264	0.1073	0.0154	0.0509	(0.08)			0.026
MBH-14X MSFM2 K	Free-M/cng & Resulph`d Steel	0.26	0.36	1.57	0.048	0.25	0.98	0.22	0.36	0.16	0.035	0.1	0.12			0.03
MBH-14X MSFM3 G	Free-M/cng & Resulph`d Steel	0.438	0.292	1.809	0.0297	0.147	0.454	0.161	0.39	0.205	0.0199	0.0494	(0.18)		0.0043	0.0206
MBH-14X MSFM4 A	Free-M/cng & Resulph`d Steel	0.226	0.496	1.141	0.0386	0.224	1.69	6.22	0.974	0.429	0.0151	0.0253	0.007			0.0220
MBH-14X 11170 A	Free machining and resulphurised steel	0.154	0.151	1.129	0.0133	0.12	0.1126	0.0877	0.0317	0.1101			0.0023	0.0044		0.0112
MBH-14X 11390 A	Free machining and resulphurised steel	0.42	0.198	1.04	0.0342	0.19	0.0609	0.0239	0.0067	0.0395			0.0026	0.0028		0.0042
MBH-14X 12130 A	Free machining and resulphurised steel	0.0871	0.022	1.219	0.061	0.305	0.0505	0.0345	0.0102	0.0201			0.0024	0.0016		0.0097
MBH-14X 12144 A	Free machining and resulphurised steel	0.08	0.0093	1.227	0.063	0.325	0.0807	0.0162	0.0089	0.0106			0.0034	0.0022		0.0066
MBH-14X 606M36T A	Free machining and resulphurised steel	0.378	0.167	1.574	0.0159	0.196	0.163	0.0931	0.272	0.179			0.0071	0.0085		0.0096
IMZ-120	Free Cutting Steel	0.6	0.34	0.4	(0.049)	0.026	0.2	0.085		0.1			0.033	0.065		0.0115

	Analyte - Measured Values (continued)						
Code	Pb	Sb	Sn	Size	Form	Type
MBH-14X MSFM1 L			0.0289	Ø 40x15 mm	CC	prov.
MBH-14X MSFM2 K			0.024	Ø 40x15 mm	CC	prov.
MBH-14X MSFM3 G			0.0378	Ø 40x15 mm	CC	prov.
MBH-14X MSFM4 A			0.0141	Ø 40x15 mm	CC	CRM
MBH-14X 11170 A	0.0011		0.011	Ø 38x15 mm	W	CRM
MBH-14X 11390 A			0.0022	Ø 38x15 mm	W	CRM
MBH-14X 12130 A			0.0054	Ø 38x15 mm	W	CRM
MBH-14X 12144 A	0.328			Ø 38x15 mm	W	CRM
MBH-14X 606M36T A			0.0103	Ø 38x15 mm	W	CRM
IMZ-120	0.077	0.031	0.008	Ø 40x40 mm		CRM

Nitriding Steel

		Analyte - Measured Values															
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	As	N	Nb	Sn
MBH-12X 15253 S	Low alloy steel	0.173	0.299	0.992	0.0552	0.053	1.505	0.506	0.513	0.326	0.242	0.0898	0.024	0.0259	0.0235	0.383	0.129
MBH-12X 15261 W	Low Alloy Steels	0.689	1.606	0.437	0.111	0.079	0.495	0.113	1.508	0.252	0.114	0.363	1.013			0.691	0.0157

	Analyte - Measured Values (continued)						
Code	Ta	Ti	W	Size	Form	Type
MBH-12X 15253 S	0.011		0.265	Ø 40x15 mm	W	CRM
MBH-12X 15261 W		0.397	0.256	Ø 40x15 mm	W	CRM

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Resulfurised Steel

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Mg	As	B
IMZ-123	Free Cutting Steel	0.25	0.23	1.57	0.03	0.38	0.16	0.057		0.093			0.032		0.033	
ECRM-B 085-1-D	Unalloyed steel - disc	0.067	0.008	0.977	0.062	0.336				0.291	0.0021	0.019				
BS-66L	1215 Steel	0.065	0.002	0.844	0.061	0.315	0.026	0.015	0.0012	0.007	0.0006	0.0035	0.0008		0.002	(<0.0003)
MBH-14X 12130 A	Free machining and resulphurised steel	0.0871	0.022	1.219	0.061	0.305	0.0505	0.0345	0.0102	0.0201			0.0024		0.0016	
IARM-206B-G	Carbon Steel, AISI 1215 / UNS G12150	0.074	0.012	1.01	0.05	0.293	0.038	0.053	0.018	0.113	0.0016	0.007	0.0025		0.0045	0.0006
IARM-206B-X	Carbon Steel, AISI 1215 / UNS G12150	0.074	0.012	1.01	0.05	0.293	0.038	0.053	0.018	0.113	0.0016	0.007	0.0025		0.0045	0.0006
IARM-199C-G	Low-Alloy Steel, AISI 1144 / UNS G11440	0.469	0.21	1.55	0.0155	0.281	0.19	0.085	0.0293	0.193	0.0037	0.007	0.0019	(0.0002)	0.0059	0.0012
IARM-199C-X	Low-Alloy Steel, AISI 1144 / UNS G11440	0.469	0.21	1.55	0.0155	0.281	0.19	0.085	0.0293	0.193	0.0037	0.007	0.0019	(0.0002)	0.0059	0.0012
IMZ-124	Free Cutting Steel	0.1	(0.019)	0.6	0.082	0.28	0.11	0.046		0.06			0.005		0.004	
BS-1144A	Resulfurized Steel 1144, UNS G11440	0.46	0.21	1.4	0.0099	0.26	0.077	0.07	0.016	0.15	0.002	0.007	0.002	<0.001	0.005	<0.001
MBH-14X MSFM2 K	Free-M/cng & Resulph`d Steel	0.26	0.36	1.57	0.048	0.25	0.98	0.22	0.36	0.16	0.035	0.1	0.12			
BS-1144	1144 Steel	0.483	0.262	1.55	0.022	0.243	0.193	0.097	0.017	0.462	0.0039	0.011	(0.002)		0.009	
MBH-14X MSFM4 A	Free-M/cng & Resulph`d Steel	0.226	0.496	1.141	0.0386	0.224	1.69	6.22	0.974	0.429	0.0151	0.0253	0.007			
IMZ-122	Free Cutting Steel	0.27	0.43	1.33	0.073	0.21	0.19	0.25		0.25			(0.027)		0.007	
MBH-14X 606M36T A	Free machining and resulphurised steel	0.378	0.167	1.574	0.0159	0.196	0.163	0.0931	0.272	0.179			0.0071		0.0085	
MBH-14X 11390 A	Free machining and resulphurised steel	0.42	0.198	1.04	0.0342	0.19	0.0609	0.0239	0.0067	0.0395			0.0026		0.0028	

Analyte - Measured Values (continued)

Code	Ca	Fe	N	Nb	Pb	Sb	Se	Sn	Ta	Ti	W	Zn	Zr	Size	Form	Type
IMZ-123			0.0171		0.03	0.03		(0.007)						Ø 40x40 mm		CRM
ECRM-B 085-1-D					0.001	0.0073						0.0025		Ø 38x30 mm		CRM
BS-66L	(<0.0010)		0.0031	(0.0012)	0.0007	0.0021		(0.001)		(<0.0010)	(<0.0010)			Ø 41-44x19 mm		CRM
MBH-14X 12130 A			0.0097					0.0054						Ø 38x15 mm	W	CRM
IARM-206B-G			0.0075	0.002	(0.001)	(0.002)		0.0064		0.0008	(0.003)		(0.002)	Ø 38x19 mm	W	CRM
IARM-206B-X			0.0075	0.002	(0.001)	(0.002)		0.0064		0.0008	(0.003)		0.002	Ø 38x3 mm	W	CRM
IARM-199C-G	(0.0011)		0.007	0.0016	0.001	(0.003)	(<0.006)	0.0084	(0.0007)	0.0016	0.0023	(0.0006)	(<0.004)	Ø 38x19 mm	W	CRM
IARM-199C-X	(0.0011)		0.007	0.0016	0.001	(0.003)	(<0.006)	0.0084	(0.0007)	0.0016	0.0023	(0.0006)	(<0.004)	Ø 38x3 mm	W	CRM
IMZ-124			0.0059		(0.002)	0.002		0.009						Ø 40x40 mm		CRM
BS-1144A	<0.001	[97.2]	0.009	0.002	0.001			0.008		0.001	0.002		0.001	Ø 38x19 mm		CRM
MBH-14X MSFM2 K			0.03					0.024						Ø 40x15 mm	CC	prov.
BS-1144			0.0093	(0.004)	(0.001)			0.0113		0.002	(0.003)			Ø 38x19 mm		CRM
MBH-14X MSFM4 A			0.0220					0.0141						Ø 40x15 mm	CC	CRM
IMZ-122			0.011		(0.02)	0.019		0.12						Ø 40x40 mm		CRM
MBH-14X 606M36T A			0.0096					0.0103						Ø 38x15 mm	W	CRM
MBH-14X 11390 A			0.0042					0.0022						Ø 38x15 mm	W	CRM

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Resulfurised Steel

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Mg	As	B
ECRM-B 058-2-D	0,15% Sulfur steel (BS 1429) - disc	0.424	0.108	1.186	0.0098	0.1712	0.1211	0.199	0.0589	0.261					0.0095	
MBH-14X 11170 A	Free machining and resulphurised steel	0.154	0.151	1.129	0.0133	0.12	0.1126	0.0877	0.0317	0.1101			0.0023		0.0044	
IARM-29E-G	Carbon Steel, AISI 1117 / UNS G11170	0.193	0.239	1.19	0.0157	0.121	0.105	0.082	0.0269	0.253	0.0255	0.008	0.0032	(0.0003)	0.0085	0.0007
IARM-29E-X	Carbon Steel, AISI 1117 / UNS G11170	0.193	0.239	1.19	0.0157	0.121	0.105	0.082	0.0269	0.253	0.0255	0.008	0.0032	(0.0003)	0.0085	0.0007
BS-65C	1117 Steel	0.15	0.24	1.19	0.007	0.115	0.066	0.063	0.012	0.24	0.002	(0.007)	(0.002)			
BS-66B	1141 Steel	0.418	0.017	1.57	0.018	0.11	0.094	0.033	0.019	0.031	0.002	0.005	0.002			
BS-3993	Steel - Low Alloy	0.152	0.26	1.16	0.012	0.094	0.072	0.045	0.01	0.111	0.002	0.006	0.002		0.004	
IMZ-121	Free Cutting Steel	0.39	(0.056)	1.18	0.057	0.097	0.036	0.029		0.032			0.016		0.002	
BS-52D	Steel - Resulfurized	0.436	0.18	0.97	0.068	0.088	0.16	0.18	0.09	0.06	0.002	0.012	0.028			
MBH-14X MSFM3 G	Free-M/cng & Resulph`d Steel	0.438	0.292	1.809	0.0297	0.147	0.454	0.161	0.39	0.205	0.0199	0.0494	(0.18)			0.0043
BS-4150MOD	Steel - Bismuth & Selenium	0.47	0.21	0.9	0.024	0.079	1.01	0.15	0.21	0.19	0.008	0.012	0.012		0.005	
BS-42A	LOW ALLOY STEEL	0.52	0.258	1.08	0.012	0.078	0.8	0.147	0.195	0.285	0.004	0.007	0.025			
BS-42	Steel - Resulfurized	0.516	0.235	1.24	0.021	0.073	0.67	0.183	0.19	0.252	0.003	0.012	0.02		(0.004)	
MBH-12X 15217 Q	Low Alloy Steels	0.176	1.39	0.652	0.058	0.073	1.24	0.864	0.358	0.231	0.662	0.248	(0.021)			
MBH-12X 15255 Q	Low Alloy Steel	0.351	1.02	1.191	0.104	0.07	1.509	0.296	0.1193	0.279	0.475	0.0502	0.073		0.0193	
VASKUT-B2/2	Steel, low alloyed	0.065	0.38	1.22	0.087	0.064		1.49	1.06	0.32	0.87		0.10			

Analyte - Measured Values (continued)

Code	Bi	Ca	N	Nb	Pb	Sb	Se	Sn	Ta	Ti	W	Zn	Zr	Size	Form	Type
ECRM-B 058-2-D			0.0107											Ø 38x30 mm		CRM
MBH-14X 11170 A			0.0112		0.0011			0.011						Ø 38x15 mm	W	CRM
IARM-29E-G	(<0.013)	0.0012	0.0093	0.0024	0.001	0.003	(0.0006)	0.0109	(0.0004)	0.0014	(<0.007)	(0.004)	(<0.004)	Ø 38x19 mm	W	CRM
IARM-29E-X	(<0.013)	0.0012	0.0093	0.0024	0.001	0.003	(0.0006)	0.0109	(0.0004)	0.0014	(<0.007)	(0.004)	(<0.004)	Ø 38x3 mm	W	CRM
BS-65C			0.0084											Ø 37x19 mm		RM
BS-66B			(0.006)							<0.002				Ø 41-44x19 mm		RM
BS-3993		(0.0002)	0.0071					0.006		(0.0008)				Ø 38x19 mm		CRM
IMZ-121			0.0125		0.011	0.017		0.059						Ø 40x40 mm		CRM
BS-52D			0.0025					0.004		(0.004)				Ø 41-44x19 mm		RM
MBH-14X MSFM3 G			0.0206					0.0378						Ø 40x15 mm	CC	prov.
BS-4150MOD	0.07	0.001	0.0087		0.001			0.013		(0.002)				Ø 38x12 mm		RM
BS-42A			0.008											Ø 35-44x19 mm		RM
BS-42			0.008	(0.002)				0.012		(0.003)	(0.002)			Ø 41-44x19 mm		RM
MBH-12X 15217 Q			0.0253	0.131				0.0737			0.121			Ø 40x15 mm	W	CRM
MBH-12X 15255 Q			0.027	0.152				0.101		0.0377	0.15			Ø 40x15 mm	W	prov.
VASKUT-B2/2										(0.25)				Ø 32-35x19 mm		CRM

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Resulfurised Steel

Code	Description	Analyte - Measured Values C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Mg	As
IMZ-125	Free Cutting Steel	0.029	0.15	0.95	(0.018)	(0.057)	0.18	0.023		0.044			(0.007)		0.065
VASKUT-A14	Steel, low alloyed	0.12	0.73	0.75	0.041	0.052	0.59	1.32	0.25	0.2	0.67	0.07	0.01		0.13
VASKUT-B16	Dynamo Steel	0.16	1.95	2.05	0.068	0.051	0.26	3.74	0.11	0.09	0.53		0.037		
VASKUT-B12	Steel, low alloyed	0.43	0.34	0.76	0.028	0.048	1.32	1.62	0.21	0.41	0.026	0.011	0.007		0.011
VASKUT-B4	Steel, low alloyed	0.55	1.72	1.07	0.047	0.043				0.49					
IARM-307A-G	Carbon, Low Alloy Steel, AISI 1118 / G11180	0.163	0.281	1.44	0.0113	0.096	0.104	0.197	0.045	0.190	0.0028	0.010	0.032	(<0.006)	0.008
IARM-307A-X	Carbon, Low Alloy Steel, AISI 1118 / G11180	0.163	0.281	1.44	0.0113	0.096	0.104	0.197	0.045	0.190	0.0028	0.010	0.032	(<0.006)	0.008
IARM-348A-G	Carbon, Low Alloy Steel, AISI 1141 / G11410	0.384	0.270	1.46	0.0121	0.102	0.123	0.081	0.026	0.230	0.0029	0.010	0.002	(<0.006)	0.007
IARM-348A-X	Carbon, Low Alloy Steel, AISI 1141 / G11410	0.384	0.270	1.46	0.0121	0.102	0.123	0.081	0.026	0.230	0.0029	0.010	0.002	(<0.006)	0.007

Code	Analyte - Measured Values (Continued) B	Bi	Ca	Cd	N	Nb	Pb	Sb	Se	Sn	Ta	Ti	W	Zn	Zr		Size	Type
IMZ-125								0.014		0.002							Ø 40x40 mm	CRM
VASKUT-A14	0.004					0.044		0.047		0.1		0.12					Ø 32-35x19 mm	CRM
VASKUT-B16						0.11						0.075					Ø 32-35x19 mm	CRM
VASKUT-B12	0.0035					0.022				0.032		0.011			0.002		Ø 32-35x19 mm	CRM
VASKUT-B4															0.09		Ø 32-35x19 mm	CRM
IARM-307A-G	(<0.005)	(<0.02)	(<0.0005)	(<0.001)	0.0108	(0.002)	0.002	(<0.004)	(<0.006)	0.0090	(<0.005)	0.0015	(0.005)	(<0.002)	(0.002)		Ø 38x19 mm	CRM
IARM-307A-X	(<0.005)	(<0.02)	(<0.0005)	(<0.001)	0.0108	(0.002)	0.002	(<0.004)	(<0.006)	0.0090	(<0.005)	0.0015	(0.005)	(<0.002)	(0.002)		Ø 38x3 mm	CRM
IARM-348A-G	0.0013	(<0.02)	0.001	(<0.001)	0.010	0.027	(0.002)	(0.003)	(<0.005)	0.0112	(<0.008)	0.0015	(0.009)	(<0.003)	(0.003)		Ø 38x19 mm	CRM
IARM-348A-X	0.0013	(<0.02)	0.001	(<0.001)	0.010	0.027	(0.002)	(0.003)	(<0.005)	0.0112	(<0.008)	0.0015	(0.009)	(<0.003)	(0.003)		Ø 38x3 mm	CRM

Die Steel

Code	Description	Analyte - Measured Values C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Pb	Sn	W	Size	Type
NCS HS23716-1	Heat Die Steel only set of 6	0.763	0.36	0.216	0.032	0.013	3.24	0.291	0.767	0.092	0.27	0.028	0.0069	0.011	0.0075	1.45	Ø 35x30 mm	CRM
NCS HS23716-2	Heat Die Steel only set of 6	1.11	0.29	0.104	0.038	0.005	5.6	0.407	0.5	0.075	0.05	0.009	0.0051	0.074	0.007	2.0	Ø 35x30 mm	CRM
NCS HS23716-3	Heat Die Steel only set of 6	0.393	1.37	0.842	0.017	0.029	4.38	0.148	1.26	0.205	0.8	0.105	0.077	0.0087	0.0076	0.5	Ø 35x30 mm	CRM
NCS HS23716-4	Heat Die Steel only set of 6	0.599	0.08	0.432	0.021	0.034	3.84	0.199	0.946	0.136	0.66	0.049	0.019	(0.0001)	0.02	0.97	Ø 35x30 mm	CRM
NCS HS23716-5	Heat Die Steel only set of 6	0.088	1.09	1.67	0.005	0.021	2.43	0.084	1.94	0.474	1.17	1.98	0.087	0.0053	0.052	0.08	Ø 35x30 mm	CRM
NCS HS23716-6	Heat Die Steel only set of 6	0.2	65.0	1.21	0.01	0.045	4.91	0.095	1.61	0.301	1.01	1.49	0.084	(0.0001)	0.032	0.2	Ø 35x30 mm	CRM

Code	Description	Analyte - Measured Values C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	W		Size	Type
NCS HS23717-1	Cold Die Steel only set of 5	2.19	0.37	0.369	0.015	0.001	11.7	0.096	0.022	0.085	0.04	0.014	0.61		Ø 35x30 mm	CRM
NCS HS23717-2	Cold Die Steel only set of 5	1.57	0.29	0.333	0.019	0.014	11.5	0.194	0.574	0.172	0.64	0.064	0.47		Ø 35x30 mm	CRM
NCS HS23717-3	Cold Die Steel only set of 5	1.31	0.38	0.473	0.0072	0.023	10.1	0.094	0.854	0.131	0.48	0.035	0.69		Ø 35x30 mm	CRM
NCS HS23717-4	Cold Die Steel only set of 5	0.869	0.05	0.044	0.044	0.003	14.2	0.436	0.082	0.364	1.07	0.166	0.07		Ø 35x30 mm	CRM
NCS HS23717-5	Cold Die Steel only set of 5	1.88	0.18	0.16	0.03	0.005	12.7	0.297	0.333	0.228	0.82	0.096	0.31		Ø 35x30 mm	CRM

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Cementation and Hardening Steel

		Analyte - Measured Values														
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	B	N	Nb
MBH-13X 66286 A	Precipitation Hardening Steel	0.035	0.216	1.173	0.0172	0.0006	14.99	25.21	1.185	0.195	0.262	0.083	0.193	0.0044	0.0040	
MBH-13X FV520B A	Precipitation hardening steel	0.0181	0.342	0.655	0.0221	0.0016	13.73	5.29	1.334	1.462	0.08	0.03			0.0197	0.301
MBH-13X PH2 M	Precipitation Hardening Steel	0.0598	0.502	1.184	0.0201	0.0419	16.8	3.56	1.009	4.03	0.1028	0.0927	0.0419	0.0047	0.052	0.143
MBH-13X PH3 M	Precipitation Hardening Steels	0.184	1.6	0.395	0.0188	0.0208	15.86	3.08	0.751	5.99	0.176	0.420		0.0049	0.070	0.394
MBH-13X PH4 N	Precipitation Hardening Steel	0.04	0.747	0.793	0.0285	0.0166	14.87	4	0.247	5.24	0.5	0.6	0.094	0.0033	0.078	0.303
MBH-13X PH7 F	Precipitation Hardening Steel	0.118	1.402	1.487	0.0283	0.0057	13.16	5.41	2.52	0.777	0.043	0.0493	0.012		0.044	0.241
MBH-13X PH13800 A	Precipitation Hardening Steels	0.0386	0.081	0.0332	0.0064	0.0030	12.52	8.04	2.10	0.0449	0.0188	0.0220	1.075		0.0041	
MBH-13X PH17400 A	Precipitation Hardening Steels	0.0200	0.349	0.829	0.020	0.0215	15.74	4.52	0.061	3.09	0.112				0.0342	0.184
MBH-13X PH17700 A	Precipitation-Hardening Steel	0.0732	0.551	0.496	0.0181	0.0008	16.88	6.98	0.340	0.146	0.0390	0.0468	1.172	0.0033	0.0192	0.0201
MBH-13X PH2S143 A	Precipitation Hardening Steel	0.044	0.479	0.546	0.0212	0.0021	13.46	5.20	1.326	1.61	0.087	0.0483			0.0246	0.225

	Analyte - Measured Units (continued)					
Code	Ti	W		Size	Form	Type
MBH-13X 66286 A	1.92	0.098		Ø 38x15 mm	W	CRM
MBH-13X FV520B A		0.02		Ø 40x15 mm	W	CRM
MBH-13X PH2 M	0.049			Ø 40x15 mm	W	prov.
MBH-13X PH3 M				Ø 40x15 mm	CC	CRM
MBH-13X PH4 N	0.1			Ø 40x15 mm	W	prov.
MBH-13X PH7 F	0.0196			Ø 40x15 mm	W	prov.
MBH-13X PH13800 A	0.0122			Ø 38x15 mm	W	CRM
MBH-13X PH17400 A		0.0056		Ø 42x15 mm	W	CRM
MBH-13X PH17700 A	0.051	0.009		Ø 38x15 mm	W	CRM
MBH-13X PH2S143 A		0.018		Ø 32x15 mm	W	CRM

Cast Steel

		Analyte - Measured Values													
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Ti	Size	Form	Type
NIST-1138A	Cast steel (No. 1)	0.11	0.25	0.35	0.035	0.056	0.13	0.1	0.05	0.09	0.02		32x32x13 mm	C	CRM
NIST-1139A	Cast steel (no.2)	0.79	0.8	0.92	0.012	0.013	2.1	0.98	0.51	0.47	0.26		32x32x13 mm	C	CRM
NIST-1173	Ni-Cr-Mo-V steel	0.423	1.28	0.19	0.033	0.092	2.7	4.06	1.5	0.204	0.42		Ø 32x19 mm		CRM
NIST-C1173	Cast Steel 3	0.453	1.38	0.174	0.031	0.092	2.63	4.04	1.46	0.204	0.42	0.037	Ø 32x19 mm	C	CRM
BAS-SS-CRM 615/1	Low Alloy Cast Steel	0.30	0.17	1.68		(0.02)	0.49	4.01	0.21	(0.05)	0.10		Ø 44x19 mm		CRM

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NCS Steel

		Analyte - Measured Values																
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Al(s)	As	Ca	N	Nb
NCS HS18742	16Mn	0.152	0.305	1.26	0.012	0.023	0.121			0.077					0.034			
NCS HS20746A	Line Steel	0.065	0.303	1.37	0.02	0.011	0.596	0.57	0.262	0.222	0.03		0.049	0.047		0.0005		0.052
NCS HS31741	3Cr13	0.0298	0.277	0.330	0.026	0.019	12.75	0.271	0.067	0.109		0.035						
NCS HS41754	Alloy Structure Steel	0.197	0.28	1.01	0.008	0.0055	1.33	0.060	0.26	0.010	0.005		0.017					
NCS HS41755	Alloy Structure Steel	0.23	0.044	0.27	0.0046	0.004	1.64	3.40	0.37		0.080							
NCS HS41756	Alloy Structure Steel	0.205	0.25	0.60	0.011	0.002	0.93	0.012	0.17	0.008	0.004							
NCS HS41757	Easy cutting Steel	0.079	0.018	1.01	0.055	0.28	0.047	0.058	0.012	0.17					0.025			
NCS HS41758	Easy cutting Steel	0.079	0.015	0.986	0.056	0.30	0.023	0.051	0.049	0.15					0.026			
NCS HS41759	Alloy Structure Steel	0.21	0.21	0.57	0.012	0.008	0.78	0.015		0.025	0.003		0.017					
NCS HS41760	Stainless steel	0.153	0.26	0.56	0.035	0.0071	16.3	1.92	0.055	0.078	0.081		0.005					0.012
NCS HS41761	Alloy Structure Steel	0.121	0.335	0.463	0.014	0.0026	8.71	0.064	0.93	0.055	0.21		0.005				0.040	0.072

	Analyte - Measured Values (continued)					
Code	Pb	Sn	Ti		Size	Type
NCS HS18742			0.018		Ø 37×30 mm	CRM
NCS HS20746A			0.079		Ø 36×40 mm	CRM
NCS HS31741					Ø 38×30 mm	CRM
NCS HS41754			0.003		Ø 38x32 mm	CRM
NCS HS41755					Ø 38x38 mm	CRM
NCS HS41756			0.004		Ø 38x32 mm	CRM
NCS HS41757	0.26	0.019			Ø 38x32 mm	CRM
NCS HS41758	0.018	0.020			Ø 38x32 mm	CRM
NCS HS41759			0.0034		Ø 38x32 mm	CRM
NCS HS41760			0.002		Ø 38x38 mm	CRM
NCS HS41761					Ø 38x38 mm	CRM

NCS Steel Sets

		Analyte - Measured Values													
Code	Description	C	Si	Mn	P	S	Cr	Mo	V	B	B(s)	W		Size	Type
NCS HS13704-1	12CrMoWVB (only set of 5)	0.068	0.51	1.096	0.012	0.047	0.281	1.46	0.394	0.0012	0.001	0.298		Ø 38x25 mm	CRM
NCS HS13704-2	12CrMoWVB (only set of 5)	0.1	0.29	0.853	0.016	0.071	0.486	1.19	0.206	0.0021	0.0016	0.438		Ø 38x25 mm	CRM
NCS HS13704-3	12CrMoWVB (only set of 5)	0.176	0.272	0.585	0.023	0.028	0.775	0.747	0.251	0.0038	0.003	0.796		Ø 38x25 mm	CRM
NCS HS13704-4	12CrMoWVB (only set of 5)	0.193	0.173	0.396	0.039	0.027	1.19	0.472	0.061	0.0068	0.0058	1.44		Ø 38x25 mm	CRM
NCS HS13704-5	12CrMoWVB (only set of 5)	0.256	0.055	0.269	0.048	0.01	1.46	0.301	0.041	0.009	0.0081	1.94		Ø 38x25 mm	CRM

		Analyte - Measured Values												
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V		Size	Type
NCS HS23707A-1	GSiMnMoV (Set only)	1.2	0.901	0.201	0.0036	0.048	0.108	0.454	0.086	0.514	0.045		Ø 35x35 mm	CRM
NCS HS23707A-2	GSiMnMoV (Set only)	0.471	0.318	0.922	0.03	0.031	0.351	0.146	0.452	0.113	0.151		Ø 35x35 mm	CRM
NCS HS23707A-3	GSiMnMoV (Set only)	0.176	0.083	1.25	0.043	0.011	0.45	0.107	0.563	0.086	0.434		Ø 35x35 mm	CRM
NCS HS23707A-4	GSiMnMoV (Set only)	0.936	0.747	0.511	0.012	0.0094	0.24	0.356	0.252	0.274	0.335		Ø 35x35 mm	CRM
NCS HS23707A-5	GSiMnMoV (Set only)	0.663	0.548	0.684	0.021	0.05	0.093	0.303	0.354	0.438	0.243		Ø 35x35 mm	CRM

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NCS Steel Sets

		Analyte - Measured Values														
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Al	Ce	As	B	N
NCS HS11708A-1	Alloy Structure steelonly as set of 8	0.2	0.222	0.68	0.038	0.0084	2.97	3.53	0.21	0.355	0.189	0.016	(0.0002)	0.048	0.0064	0.014
NCS HS11708A-2	Alloy Structure steelonly as set of 8	0.144	0.132	3.6	0.053	0.074	0.95	4.33	0.019	0.016	0.478	0.012		0.054	0.0006	0.007
NCS HS11708A-3	Alloy Structure steelonly as set of 8	0.288	0.29	0.89	0.035	0.027	2.27	1.29	0.556	0.136	0.346	0.1		0.021	0.0029	0.0085
NCS HS11708A-4	Alloy Structure steelonly as set of 8	0.046	0.051	2.42	0.048	0.017	4.4	2.54	1.4	0.441	0.449	0.0067	(0.0001)	0.032	0.0016	0.02
NCS HS11708A-5	Alloy Structure steelonly as set of 8	0.251	0.605	1.04	0.025	0.031	1.36	1.77	0.864	0.046	0.118	0.0098	(0.00009)	0.093	0.0055	0.01
NCS HS11708A-6	Alloy Structure steelonly as set of 8	0.315	0.391	1.88	0.029	0.049	3.27	1.02	0.118	0.245	0.273	0.147		0.056	0.0096	0.015
NCS HS11708A-7	Alloy Structure steelonly as set of 8	0.505	1.1	0.325	0.0062	0.065	0.703	0.773	0.305	0.518	0.013	0.311	(0.0001)	0.0067	0.025	0.0027
NCS HS11708A-8	Alloy Structure steelonly as set of 8	0.425	0.83	0.553	0.017	0.0009	0.177	0.621	0.423	0.636	0.055	0.602	0.045	0.0086	0.019	0.0028

	Analyte - Measured Values (continued)						
Code	Pb	Sn	Ti	W		Size	Type
NCS HS11708A-1	(0.0008)	0.048	0.161	0.429		Ø 38x30 mm	CRM
NCS HS11708A-2	(0.0003)	0.057	0.226	0.092		Ø 38x30 mm	CRM
NCS HS11708A-3	0.0034	0.017	0.296	0.804		Ø 38x30 mm	CRM
NCS HS11708A-4	0.0015	0.036	0.035	1.98		Ø 38x30 mm	CRM
NCS HS11708A-5	0.0024	0.011	0.073	1.23		Ø 38x30 mm	CRM
NCS HS11708A-6	(0.0002)	0.027	0.136	0.201		Ø 38x30 mm	CRM
NCS HS11708A-7	0.0019	0.0042	0.028	0.602		Ø 38x30 mm	CRM
NCS HS11708A-8	0.0013	0.0087	0.061	0.362		Ø 38x30 mm	CRM

		Analyte - Measured Values														
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Al	Al(s)	As	Ca	N
NCS HS28706-1	Line Steel only as set of 6	0.055	0.29	1.81	0.011	0.0024	0.283	0.201	0.16	0.205	0.00543	0.027	0.026	0.004	0.0009	0.0053
NCS HS28706-2	Line Steel only as set of 6	0.058	0.202	1.41	0.0072	0.0063	0.049	0.012	0.0014	0.013	0.042	0.028	0.026	0.0032	0.0012	0.004
NCS HS28706-3	Line Steel only as set of 6	0.083	0.194	0.559	0.01	0.007	0.024	0.009	0.002	0.02	0.0009	0.023	0.021	0.0034	0.0017	0.0053
NCS HS28706-4	Line Steel only as set of 6	0.086	0.246	1.2	0.011	0.006	0.022	0.008	0.0012	0.015	0.0014	0.016	0.015	0.0043	0.0035	0.0059
NCS HS28706-5	Line Steel only as set of 6	0.105	0.325	1.31	0.0087	0.0041	0.023	0.0089	0.0013	0.016	0.038	0.023	0.022	0.0033	0.002	0.0067
NCS HS28706-6	Line Steel only as set of 6	0.108	0.279	1.23	0.013	0.006	0.026	0.0061	0.001	0.01	0.0012	0.023	0.022	0.0044	0.0013	0.0074

	Analyte - Measured Values (continued)			
Code	Nb	Ti	Size	Type
NCS HS28706-1	0.103	0.022	Ø 40x40 mm	CRM
NCS HS28706-2	0.05	0.016	Ø 40x40 mm	CRM
NCS HS28706-3	0.011	0.003	Ø 40x40 mm	CRM
NCS HS28706-4	0.022	0.01	Ø 40x40 mm	CRM
NCS HS28706-5	0.035	0.02	Ø 40x40 mm	CRM
NCS HS28706-6	0.023	0.01	Ø 40x40 mm	CRM

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Leaded Steel by BS

		Analyte - Measured Values															
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Mg	As	B	Ca
BS-70B	Steel - Leaded	0.4	0.27	0.9	0.009	0.022	1	0.25	0.205	0.13			0.024				
BS-70C	Steel - Leaded	0.39	0.27	0.90	0.01	0.02	0.97	0.25	0.20	0.12	0.002	0.009	0.02	<0.005	<0.05	<0.005	
BS-72B	Steel - Leaded	0.497	0.26	0.87	0.029	0.029	0.985	0.169	0.187	0.21	0.004	0.012	0.02		(0.006)		
BS-73B	Steel - Leaded	0.2	0.25	0.83	0.009	0.03	0.512	0.416	0.17	0.141	(<0.002)	0.008	0.022		0.004		
BS-74C	Steel - Leaded	0.077	(0.002)	0.94	0.082	0.294	0.019	0.011	0.008	0.005	0.0016		(<0.002)		0.004		
BS-75F	Steel - Leaded (Grade 11L17)	0.165	0.004	1.05	0.009	0.116	0.08	0.044	0.018	0.03			0.002				
BS-75G	Leaded steel	0.161	0.011	1.08	0.0085	0.114	0.079	0.045	0.0174	0.0300	0.0005	0.0031	0.0016		0.0028	(0.0002)	(0.0002)

	Analyte - Measured Values (continued)										
Code	Fe	N	Nb	Pb	Sn	Ti	W	Zr		Size	Type
BS-70B				0.135						Ø 41x13 mm	RM
BS-70C	[96.5]	<0.05	<0.05	0.13	0.01	0.002		<0.05		Ø 41x19 mm	CRM
BS-72B		0.0081	(0.001)	0.174	0.014	(0.002)				Ø 41x12 mm	RM
BS-73B		0.0113		0.139	0.008					Ø 44x12 mm	RM
BS-74C		0.004	(<0.005)	0.328	(<0.002)					Ø 41x12 mm	CRM
BS-75F				0.202						Ø 41x14 mm	RM
BS-75G		0.0030	(0.0003)	0.247	0.0014	(0.0004)	0.0004			Ø 41x19 mm	CRM

Bi in Steel

		Analyte - Measured Values															
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	As	Bi	Ca	N
BS-4140A	Steel - Bismuth & Selenium	0.4	0.21	0.84	0.021	0.076	0.97	0.15	0.16	0.15	0.004	0.01	0.016	0.005	0.105	(0.0003)	0.0098
BS-4140B	Steel - Bismuth	0.43	0.2	0.76	0.027	0.037	0.84	0.012	0.16	0.006	0.005	0.005	0.036	(0.002)	0.087	(0.0002)	0.0064
BS-53MOD	Steel - Bismuth	1.01	0.26	0.36	0.011	0.012	1.37	0.072	0.024	0.07	0.005	0.007	0.019	0.004	0.102	(0.001)	0.0086

	Analyte - Measured Values (continued)					
Code	Pb	Sn	Ti		Size	Type
BS-4140A	(0.001)	0.011	(0.003)		Ø 38x12 mm	RM
BS-4140B	0.004	(0.002)	0.003		Ø 38x12 mm	RM
BS-53MOD	0.0005	0.008			Ø 38x12 mm	RM

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High B

		Analyte - Measured Values														
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Al	B	Ti	W	WO3
MQ-C60	Steel with High B, 35-45 x 15-16mm thick	(0.058)	(0.35)	(0.5)	(0.002)	(0.006)	(11.9)	(0.51)	(0.37)	(0.01)	(0.41)	(0.11)	1.42	(2.7)	(0.2)	
MQ-C61	Steel with High B, 35-45 x 15-16mm thick	(0.073)	(0.41)	(0.38)	(0.003)	(0.005)	(17.8)	(0.95)	(0.24)	(0.09)	(0.19)	(0.04)	2.14	(0.75)	(0.22)	
MQ-C62	Steel with High B, 35-45 x 15-16mm thick	(0.065)	(0.32)	(0.31)	(0.01)	(0.024)	(14.4)	(0.84)	(0.16)	(0.24)	(0.18)	(0.59)	1.15	(3.36)	(0.14)	
MQ-C63	Steel with High B, 35-45 x 15-16mm thick	(0.07)	(0.3)	(0.27)	(0.014)	(0.006)	(11.3)	(0.48)	(0.09)	(0.39)	(0.08)	(0.25)	1.05	(0.7)		(0.1)

Code		Size	Type
MQ-C60		35-45 x 15-16mm thick	CRM
MQ-C61		35-45 x 15-16mm thick	CRM
MQ-C62		35-45 x 15-16mm thick	CRM
MQ-C63		35-45 x 15-16mm thick	CRM

Miscellaneous

		Analyte - Measured Values														
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	Al	N	Ti		Size	Type
IMZ-204	High Aluminium Steel	0.085	0.4	0.36	0.14	0.008	0.111	0.034	(0.007)	0.075	4.21	(0.0052)	0.035		Ø 36x20mm	CRM

Values listed in mass %: ( ) Uncertified Value,

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ARMI - Setting-Up Samples and Control Samples

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	As	B	Ca	Fe
IARM-195A-G	Low-Alloy Steel, SPC2-BD	0.255	1.16	1.85	0.018	0.007	0.214	1.01	0.052	0.52	0.083	0.102	0.013	0.021	0.0040	0.0001	
IARM-195A-C	Low-Alloy Steel, SPC2-BD, chips	0.255	1.16	1.85	0.018	0.007	0.214	1.01	0.052	0.52	0.083	0.102	0.013	0.021	0.0040	0.0001	
IARM-195B-G	Low-Alloy Steel, SPC2-BH	0.255	1.16	1.84	0.018	0.005	0.216	1.00	0.052	0.52	0.082	0.101	0.029	0.021	0.0039	0.0002	
IARM-195B-C	Low-Alloy Steel, SPC2-BH, chips	0.255	1.16	1.85	0.018	0.007	0.214	1.01	0.052	0.52	0.083	0.102	0.013	0.021	0.004	0.0001	
IARM-196A-G	Low-Alloy Steel, SPC3-ZH	1.08	0.35	2.4	0.04	0.014	2.35	0.61	0.129	0.25	0.157	0.013	0.015	0.025	0.0017	0.0002	
IARM-196A-C	Low-Alloy Steel, SPC3-ZH, chips	1.08	0.35	2.40	0.040	0.014	2.35	0.61	0.129	0.25	0.157	0.013	0.015	0.025	0.0017	0.0002	
IARM-217A-G	Carbon Steel, SUS, QA A	0.01	0.01	0.003	0.002	0.001	0.01	0.01	0.01	0.001	0.002	0.004	0.0002	0.003	(<0.0001)	0.0001	>99.9
IARM-218A-G	Low-Alloy Steel, SUS, QA C	(0.05)	0.1	(2)	(0.1)	(0.07)	(0.1)	(5)	(0.1)	(0.6)	(1)	(0.01)	(0.003)	(0.1)	(0.0004)	(<0.0001)	
IARM-219A-G	Low-Alloy Steel, SUS, QA D	(0.9)	2	(0.02)	(0.003)	(0.002)	(5)	(2.8)	(1.5)	(0.6)	(0.3)	(1)	(0.2)	(0.01)	(0.01)	(<0.0001)	

Analyte - Measured Values (continued)

Code	N	Nb	Pb	Sb	Sn	Ta	Ti	W	Zn	Zr		Size	Form	Type
IARM-195A-G	0.0078	0.007	0.0014	0.013	0.084		0.002	0.38		0.002		Ø 38x19 mm	W	CRM
IARM-195A-C	0.0078	0.007	0.0014	0.013	0.084		0.002	0.38		0.002		100 g	W	CRM
IARM-195B-G	0.0070	0.007	0.002	0.011	0.084		0.002	0.38		0.002		Ø 38x19 mm	W	CRM
IARM-195B-C	0.0078	0.007	0.0014	0.013	0.084		0.002	0.38		0.002		100 g	W	CRM
IARM-196A-G	0.0084	0.087	0.001	0.006	0.033		0.014	0.189		0.006		Ø 38x19 mm	W	CRM
IARM-196A-C	0.0084	0.087	0.001	0.006	0.033		0.014	0.189		0.006		100 g	W	CRM
IARM-217A-G	0.0005	0.001	0.004	0.006	0.0005	0.01	0.0001	0.005	(<0.0001)	0.005		Ø 38x38 mm	W	SUS
IARM-218A-G	(0.007)	(<0.0001)	(<0.001)	(0.02)	(0.1)	(0.02)	(0.01)	(0.7)	(<0.001)	(<0.001)		Ø 38x38 mm	W	SUS
IARM-219A-G	(0.002)	(0.4)	(0.003)	(0.1)	(0.06)	(0.01)	(1.7)	(0.01)	(0.01)	(0.002)		Ø 38x38 mm	W	SUS

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Nell - Setting-Up Samples and Control Samples

		Analyte - Measured Values													
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	As	B
SUS-RE12+	PURE IRON, SUS	<0.003	<0.003	<0.01	<0.001	<0.002	<0.002	<0.0015	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001
SUS-RE13+	Pure Iron, SUS	0.01	<0.005	0.058	<0.01	<0.01	0.02	0.015	<0.01	0.009	<0.001	<0.003	<0.005	<0.003	<0.0002
SUS-RN13+	Steel, low alloyed, SUS	0.98	0.01	1.83	<0.01	<0.01	0.01	3.07	<0.01	<0.01	<0.01	<0.01	0.44	<0.01	<0.001
SUS-RN14+	Steel, low alloyed, SUS	0.04	1.68	0.18	>0.12	0.05	2.8	0.04	0.5	0.36	0.5	0.4	0.01	0.07	0.005
SUS-RN15+	Pig Iron, SUS	3	0.3	1.6	0.04	0.05	0.1	3			0.09		(~0.4)		0.05
SUS-RN16+	Steel, low alloyed, SUS	0.99	0.01	1.79	<0.01	<0.01	<0.01	3	<0.01	<0.01	<0.01	<0.01	0.39	<0.01	<0.001
SUS-RN17+	Steel, low alloyed, SUS	0.04	1.7	0.21	0.11	0.07	2.9	0.04	0.5	0.38	0.5	0.4	0.007	0.06	0.004
SUS-RN18+	Steel, low alloyed, SUS	1	0.2	1.1		0.2		11		7			0.06		
SUS-RN19+	LOW ALLOY STEEL	0.85	1	1.75	0.1	0.07	3.14	3.63	1	0.38	0.6	>0.7	0.37	0.05	<0.01
SUS-RH12+	Steel, high alloyed, SUS	0.4	0.37	16.76	0.04	<0.01	3.94	0.68	0.23	0.09		<0.01	<0.01	<0.01	
SUS-RH13+	Steel, high alloyed, SUS (HSS)	1	0.4	0.3	0.03	<0.01	3.8	0.3	4.7	0.1	1.7	4	0.02		
SUS-RH18+	Steel, high alloyed SUS (HSS)	1.29	0.37	0.32	0.03	0.02	4.22	0.27	3.15	0.09	3.1	10.74	0.018		
SUS-RH31+	Steel, high alloyed, SUS (INOX)	0.03	0.6	1.1	0.02	0.01	17.04	19.2	2	2.1	0.04	0.08	<0.01	<0.001	
SUS-RH33+	Steel, high alloyed SUS (INOX) - FeCr16Ni20Mn8Cu2N0.15	0.031	0.09	10.02	<0.01	0.015	18	18.9	0.02	1.9	0.04	0.027	0.025	<0.001	
SUS-RH34+	Steel, high alloyed SUS (INOX) - FeCr16Ni20Mn8Cu2N0.15	0.079	0.22	9.5	<0.001	<0.01	17.27	19.05	0.01	2.1	0.03	0.3	0.012	<0.001	
SUS-RMFE1/5	Steel, unalloyed	0.011	0.004	0.049	0.003	0.004	0.013	0.022	0.0019	0.0099	<0.0005	0.002	0.003	0.002	<0.0005
SUS-RMFE2/3	Steel, unalloyed	0.296	0.3	0.69	0.042	0.013	0.59	0.83	0.31	0.36	0.33	0.053	0.015	0.045	0.0015
SUS-RMFEC/3	Steel, unalloyed	0.14	0.53	1.29	0.087	0.072	0.38	0.41	0.21	0.68	0.073	0.11	0.005	0.052	0.003
SUS-RMFED/6	Steel, unalloyed	0.83	1.03	0.31	0.022	0.019	2.72	0.12	1.44	0.11	0.037	0.32	0.22	0.007	
SUS-RMFED/7	Steel, unalloyed	0.85	1.03	0.21	0.019	0.013	2.97	0.12	1.21	0.06	0.05	0.32	0.15	0.004	

	Analyte - Measured Values (continued)																
Code	Bi	Ca	Fe	N	Nb	Pb	Sb	Sn	Ta	Te	Ti	W	Zn	Zr		Size	Type
SUS-RE12+		<0.001		<0.001	<0.001	<0.001		<0.001			<0.001	<0.002		<0.001		Ø 40x40 mm	SUS
SUS-RE13+		<0.0005			0.002	<0.001		0.002	<0.004		<0.001	<0.002		<0.001		Ø 35-40x40 mm	SUS
SUS-RN13+	<0.001	<0.001		<0.01	<0.01	<0.01	0.04	0.05	<0.01	<0.01	<0.001	0.06		0.2		Ø 40x40 mm	SUS
SUS-RN14+	0.02	<0.01		0.03	>0.4	0.03	0.02	0.15	0.15	0.02	0.15	0.3		0.003		Ø 40x40 mm	SUS
SUS-RN15+							0.03	0.06			0.02					Ø 40x40 mm	SUS
SUS-RN16+	<0.001	<0.001		<0.01	<0.01	<0.01	0.04	0.05	<0.01	<0.01	<0.001	0.07		0.18		Ø 40x40 mm	SUS
SUS-RN17+	0.02	0.002		0.02	>0.4	0.02	0.02	0.003	0.13	0.04	0.08	0.3		0.003		Ø 40x40 mm	SUS
SUS-RN18+	>0.06					0.2		0.2		>0.06						Ø 40x40 mm	SUS
SUS-RN19+	0.005	<0.001		0.04	>0.4	0.006	0.06	0.09	0.22	0.04	0.09	0.32	0.007	0.05		Ø 40x40 mm	SUS
SUS-RH12+					0.04							0.06		<0.01		Ø 40x40 mm	SUS
SUS-RH13+					0.02			<0.01			0.003	6				Ø 40x40 mm	SUS
SUS-RH18+			66.9		0.02			0.004			0.006	9.46				Ø 40x40 mm	SUS
SUS-RH31+					0.2			<0.01			<0.01	0.06		0.013		Ø 40x40 mm	CRM
SUS-RH33+					0.51			<0.01			0.25	0.09		0.016		Ø 40x40 mm	SUS
SUS-RH34+				0.21	0.48			<0.001			0.02	0.15		0.015		Ø 40x40 mm	SUS
SUS-RMFE1/5		<0.001		0.002	<0.005	<0.002		0.0008			<0.0005	0.002		<0.005		Ø 40x40 mm	RM
SUS-RMFE2/3		<0.001		0.0197				0.033			0.045	0.038				Ø 40x40 mm	RM
SUS-RMFEC/3		0.0013			0.0073		0.019	0.049			0.0074	0.34		0.01		Ø 40x40 mm	RM
SUS-RMFED/6					0.37			0.013			0.18	0.085		0.073		Ø 40x40 mm	RM
SUS-RMFED/7								(0.003)								Ø 40x40 mm	RM

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Nell - Setting-Up Samples and Control Samples

		Analyte - Measured Values															
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	As	B	Bi	Ca
SUS-RFEC+	Steel, low alloyed, SUS	0.29	0.24	1.5	0.08	0.06	0.18	3.02	0.12	0.52	0.44	0.06	0.03	0.06	0.003	0.03	0.002
SUS-RFED+	Steel, low alloyed, SUS	0.85	1.05	0.22	0.02	0.01	2.93	0.12	1.22	0.05	0.05	0.32	0.16	0.003	<0.01	<0.01	<0.001
SUS-CFE0	FeSi to check Argonsystem																
SUS-CFE0(30MM)	FeSi to check Argonsystem																
SUS-CFE1	Steel, unalloyed	0.011	0.004	0.049	0.003	0.004	0.013	0.022	0.0019	0.0099	<0.0005	0.002	0.003	0.002	<0.0005		<0.001
SUS-CFE1(30MM)	Steel, unalloyed	0.011	0.004	0.049	0.003	0.004	0.013	0.022	0.0019	0.0099	<0.0005	0.002	0.003	0.002	<0.0005		<0.001
SUS-CFE1(40MM)	Steel, unalloyed	0.011	0.004	0.049	0.003	0.004	0.013	0.022	0.0019	0.0099	<0.0005	0.002	0.003	0.002	<0.0005		<0.001
SUS-CFE2	Steel, unalloyed	0.3	0.3	0.65	0.045	0.018	0.72	0.74	0.41	0.31	0.6	0.05	0.006	0.049	0.0022		<0.001
SUS-CFE2(30MM)	Steel, unalloyed	0.3	0.3	0.65	0.045	0.018	0.72	0.74	0.41	0.31	0.6	0.05	0.006	0.049	0.0022		<0.001
SUS-CFE2(40MM)	Steel, unalloyed	0.3	0.3	0.65	0.045	0.018	0.72	0.74	0.41	0.31	0.6	0.05	0.006	0.049	0.0022		<0.001
SUS-CFE3	Steel, high alloyed	0.05	0.44	1.54	0.02	0.02	17.38	9.92	2.07	0.241	0.07	0.322					
SUS-CFE3(30MM)	Steel, unalloyed	0.05	0.44	1.54	0.02	0.02	17.38	9.92	2.07	0.241	0.07	0.322					

	Analyte - Measured Values (continued)												
Code	N	Nb	Pb	Sb	Sn	Ta	Te	Ti	W	Zr		Size	Type
SUS-RFEC+	0.01	0.06	0.02	0.01	0.02	0.19	0.03	0.014	0.48	<0.01		Ø 40x40 mm	SUS
SUS-RFED+	0.02	0.3	0.01	0.05	<0.01	<0.01	<0.01	0.12	0.05	0.13		Ø 40x40 mm	SUS
SUS-CFE0												Ø 40x50 mm	SUS
SUS-CFE0(30MM)												Ø 40x30 mm	SUS
SUS-CFE1	0.002	<0.005	<0.002		0.0008			<0.0005	0.002	<0.005		Ø 40x50 mm	SUS
SUS-CFE1(30MM)	0.002	<0.005	<0.002		0.0008			<0.0005	0.002	<0.005		Ø 40x30 mm	SUS
SUS-CFE1(40MM)	0.002	<0.005	<0.002		0.0008			<0.0005	0.002	<0.005		Ø 40x40 mm	SUS
SUS-CFE2	0.02	0.014	0.008	0.006	0.038	0.01		0.021	0.19			Ø 40x50 mm	SUS
SUS-CFE2(30MM)	0.02	0.014	0.008	0.006	0.038	0.01		0.021	0.19			Ø 40x30 mm	SUS
SUS-CFE2(40MM)	0.02	0.014	0.008	0.006	0.038	0.01		0.021	0.19			Ø 40x40 mm	SUS
SUS-CFE3		0.54			0.02			0.021				Ø 40x50 mm	SUS
SUS-CFE3(30MM)		0.54			0.02			0.021				Ø 40x30 mm	SUS

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Nell - Setting-Up Samples and Control Samples

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Mg	As	B	N
SUS-CFE3(40MM)	Steel, unalloyed	0.05	0.44	1.54	0.02	0.02	17.38	9.92	2.07	0.241	0.07	0.322					
SUS-CFE4	Steel, unalloyed	1.4	0.4	0.5	0.01	0.01	11.4	0.13	0.7	0.03	0.8	0.02	0.007		<0.001	0.0041	0.047
SUS-CFE4(30MM)	Steel, unalloyed	1.4	0.4	0.5	0.01	0.01	11.4	0.13	0.7	0.03	0.8	0.02	0.007		<0.001	0.0041	0.047
SUS-CFE4(40MM)	Steel, unalloyed	1.4	0.4	0.5	0.01	0.01	11.4	0.13	0.7	0.03	0.8	0.02	0.007		<0.001	0.0041	0.047
SUS-CFE5+	Pig Iron, Check Sample	3.9	0.27	0.18	0.13	0.02	0.11	0.07	0.09	0.09	0.1		0.04				
SUS-CFE6+	Cast Iron, grey, Check Sample	(3.3)	2.8	0.4	0.04	0.04	0.06	0.05	<0.01	0.1	0.01		0.003				
SUS-CFE6+(30MM)	Cast Iron, grau, Check Sample	(3.3)	2.8	0.4	0.04	0.04	0.06	0.05	<0.01	0.1	0.01		0.003				
SUS-CFE7+	Grey Cast Iron, Check Sample	(3.8)	2.53	0.18	0.021	0.024	0.03	0.01	<0.01	0.24	0.018		<0.01	0.056			
SUS-CFE7+(30MM)	Cast Iron, grau, Check Sample	(3.8)	2.53	0.18	0.021	0.024	0.03	0.01	<0.01	0.24	0.018		<0.01	0.056			
SUS-CFE8+	Cast Iron, Check Sample	3.2	1.3	0.45	0.025	0.02	0.05	0.11	0.01	0.058	0.04	0.005	0.05		0.002	0.01	
SUS-CFE9	Steel, unalloyed	0.09	0.001	1.2	0.06	0.3	0.01	0.01	0.005	0.006		0.003	0.0005		0.003	0.0001	
SUS-CFE9(30MM)	Steel, unalloyed	0.09	0.001	1.2	0.06	0.3	0.01	0.01	0.005	0.006		0.003	0.0005		0.003	0.0001	

Analyte - Measured Values (continued)

Code	Nb	Pb	Sb	Sn	Te	Ti	W	Zr		Size	Type
SUS-CFE3(40MM)	0.54			0.02		0.021				Ø 40x40 mm	SUS
SUS-CFE4	0.006	0.0043		0.008		0.004	<0.01			Ø 40x50 mm	SUS
SUS-CFE4(30MM)	0.006	0.0043		0.008		0.004	<0.01			Ø 40x30 mm	SUS
SUS-CFE4(40MM)	0.006	0.0043		0.008		0.004	<0.01			Ø 40x40 mm	SUS
SUS-CFE5+	<0.0015			0.04		0.02				Ø 35-40x30 mm	SUS
SUS-CFE6+				0.004		0.01				Ø 40x50 mm	SUS
SUS-CFE6+(30MM)				0.004		0.01				Ø 40x30 mm	SUS
SUS-CFE7+		<0.001		0.003		0.009				Ø 40x50 mm	SUS
SUS-CFE7+(30MM)		<0.001		0.003		0.009				Ø 40x30 mm	SUS
SUS-CFE8+	<0.001			0.01	0.002	0.05	<0.01	0.0002		Ø 37-40x30 mm	SUS
SUS-CFE9		0.3	0.0005							Ø 40x50 mm	SUS
SUS-CFE9(30MM)		0.3	0.0005							Ø 40x30 mm	SUS

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Nell - Stahlschlüssel / PMI Testing - Setting-Up Samples and Control Samples

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	N	Nb
SUS-1.0580	Recalibration sample: Fe-Base, St 52	0.18	0.2	1.18	0.01	0.01	0.09	0.08	0.01	0.2	<0.01	<0.01	0.02		<0.01
SUS-1.0737	Recalibration sample: Fe-Base, 9 SMnPb 36	0.09	<0.01	1.2	0.06	0.3	0.01	0.01	0.005	0.006		0.003	<0.001		
SUS-1.2080	Recalibration sample,X 210 Cr 12	2.22	0.38	0.24	0.03	0.012	11.03	0.16	0.02	0.12	0.03		0.02		0.002
SUS-1.3243	Recalibration sample: Fe-Base, EMo 5 Co 5	0.95	0.41	0.28	0.02	0.003	4.77	0.27	5.17	0.1	1.77	4.77	0.02		0.02
SUS-1.4034	Recalibration sample, Fe Base, X 46 Cr 13	0.46	0.48	0.25	0.03	0.04	13	0.27	0.09	0.07	0.04		0.01		<0.01
SUS-1.4305	Recalibration sample: Fe-Base, X 10 CrNiS 18 9	0.05	0.35	1.73	0.03	>0.1	17.7	8.9	0.34	0.47	0.07	0.11	0.003		0.01
SUS-1.4306	Recalibration sample: Fe-Base, X 2 CrNi 19 11	0.01	0.56	1.09	0.02	0.03	18.2	10.1	0.19	0.55	0.1		0.005	0.04	0.02
SUS-1.4404	Recalibration sample: Fe-Base, X 2 CrNiMo 17 13 2	0.02	0.42	1.5	0.02	0.03	16.61	10.2	2.08	0.36	0.05		0.007		0.016
SUS-1.4541	Recalibration sample: Fe-Base, X 6 CrNiTi 18 10	0.035	0.36	1.82	0.02	0.02	17.32	9.95	0.32	0.43	0.06		0.005		<0.01
SUS-1.4571	Recalibration sample: Stainless Steel	0.02	0.62	2.05	0.03	0.03	16.95	11.4	2.06	0.4	0.06	0.14	0.02		0.02
SUS-1.4876	Recalibration sample: Fe-Base, X 10 NiCrAlTi 32 20	0.06	0.42	0.65	0.01	<0.01	20.55	31.13	0.17	0.03	0.07	0.06	0.28		<0.01
SUS-1.5415	Recalibration sample: Fe-Base, 15Mo3	0.19	0.35	0.64	0.005	0.003	0.06	0.04	0.27	0.03	0.001	0.004	0.02		<0.01
SUS-1.7131	Recalibration sample: Fe-Base, 16MnCr5	0.17	0.26	1.27	0.011	0.02	1.07	0.1	0.03	0.2	<0.001	0.01	0.03		<0.01
SUS-1.7225	Recalibration sample: Steel	0.43	0.23	0.73	0.01	0.02	1.15	0.03	0.17	0.01	<0.01	<0.01	0.03	<0.01	<0.01

Analyte - Measured Values (continued)

Code	Pb	Ti	W		Size	Type
SUS-1.0580		0.001			Ø 40x30 mm	SUS
SUS-1.0737	0.3				Ø 40x30 mm	SUS
SUS-1.2080					Ø 40x30 mm	SUS
SUS-1.3243		<0.01	6.21		Ø 40x30 mm	SUS
SUS-1.4034		<0.01			Ø 40x30 mm	SUS
SUS-1.4305		<0.01	0.05		Ø 40x30 mm	SUS
SUS-1.4306		<0.01			Ø 40x30 mm	SUS
SUS-1.4404		0.006			Ø 40x30 mm	SUS
SUS-1.4541		0.13			Ø 40x30 mm	SUS
SUS-1.4571		0.14	0.04		Ø 40x30 mm	SUS
SUS-1.4876		0.28	0.1		Ø 40x30 mm	SUS
SUS-1.5415		0.002			Ø 40x30 mm	SUS
SUS-1.7131		0.002			Ø 40x30 mm	SUS
SUS-1.7225		<0.01			Ø 40x30 mm	SUS

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BS - Setting-Up Samples and Control Samples

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Mg	As
BS-02H	Steel, SUS	0.49	0.19	0.75	0.007	0.028	0.11	0.17	0.026	0.21	0.029	0.007	<0.001		0.006
BS-03D	AISI Grade 1117 Steel Setting-up Sample	0.18	0.28	1.15	0.025	0.10	0.18	0.11	0.04	0.27		0.02	<0.001		
BS-207+	Steel, SUS	0.15	0.39	0.51	0.017	0.013	0.37	0.017	0.005	0.033	0.002		0.007		
BS-211+	Steel, SUS,	1.09	0.62	0.48	0.025	0.014	1.46	0.105	0.045	0.1	0.014		0.029		
BS-213+	Steel, SUS	0.152	0.49	0.68	0.015	0.005	0.37	2.68	(0.008)	0.059	(0.004)		(0.04)		
BS-214+	Steel, SUS	0.1	0.34	0.65	0.019	0.012	0.21	3.7	0.02	0.1	(0.004)		0.025		
BS-224+	Steel, SUS	0.11	1.32	0.6	0.024	0.019	12.8	0.75	0.056	0.07	0.041	0.03	0.013		
BS-SU11L17	Leaded steel	0.168	0.009	1.14	0.011	0.116	0.081	0.046	0.018	0.032	0.001		0.002		
BS-SU 41L40	Setting-up Sample for Leaded Steel Grade 41L40 Mod	0.39	0.26	0.90	0.01	0.02	0.97	0.25	0.20	0.13	0.002	0.008	0.02	<0.005	<0.05
BS-SU-304	Stainless steel, SUS	0.024	0.367	1.45	0.031	0.026	18.25	8.1	0.49	0.47	0.072	0.125	<0.005		
BS-SU309+	Stainless Steel, SUS	0.077	0.5	1.68	0.027	0.0009	22.5	13.68	0.3	0.26	0.065	0.13	0.006		
BS-SU316L-A	Stainless steel SUS	0.017	0.41	1.67	0.029	0.0232	16.67	9.83	2.03	0.41	0.062	0.017	0.001		0.0043
BS-SU321+	Stainless Steel, SUS	0.055	0.63	1.67	0.016	0.023	17.18	10.15	0.22	0.21	0.13	0.16	0.19		

Analyte - Measured Values (continued)

Code	B	Ca	Fe	N	Nb	Pb	Sb	Sn	Ta	Ti	Tl	W	Zr		Size	Type
BS-02H	0.0004	0.0012			<0.001	<0.001	<0.001	0.016	<0.001	<0.001		<0.001	<0.001		Ø 38-44x150 mm	SUS
BS-03D				0.011				0.017				0.001			Ø 41x150 mm	SUS
BS-207+					0.024			(0.003)							Ø 32x17 mm	SUS
BS-211+					0.005			(0.007)							Ø 32 x 17mm	SUS
BS-213+					0.013			(0.002)			0.002	(0.006)			Ø 32x17 mm	SUS
BS-214+					(0.007)			(0.005)			0.002	<0.008			Ø 32x17 mm	SUS
BS-224+					0.02			0.007				(0.004)			Ø 32x17 mm	SUS
BS-SU11L17	<0.0005	<0.0005	98.1	0.003	0.002	0.27				0.002		0.005			Ø 41x40 mm	SUS
BS-SU 41L40	<0.005	<0.005	96.6	<0.05	<0.05	0.14		0.01		0.002		<0.05	<0.05		Ø 41x40 mm	SUS
BS-SU-304	0.0007	0.0016	70.5	0.084	0.013	0.002		0.014		0.002		0.032	0.007		Ø 38x40 mm	SUS
BS-SU309+	0.003			0.095	0.027			0.007							Ø 44x40 mm	SUS
BS-SU316L-A	0.0007	0.0015	68.6	0.08	0.007	0.0006	0.002	0.0088	0.007	0.0061		0.051	0.0041		Ø 38x40 mm	SUS
BS-SU321+				0.012				0.004		0.45					Ø 38x40 mm	SUS

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BS - Setting-Up Samples and Control Samples

Analyte - Measued Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Mg	As	B
BS-SU321A+	Stainless Steel, SUS	0.046	0.38	1.77	0.024	0.02	17.4	9.09	0.25	0.67	0.1	0.052	0.1		0.004	0.0005
BS-SU 321B	Steel SUS, AISI 321	0.039	0.56	1.58	0.03	0.0004	17.65	9.2	0.357	0.465	0.076	0.1	0.025		0.006	0.002
BS-SU347+	Stainless Steel, SUS	0.056	0.51	1.61	0.03	0.027	17.26	9.43	0.39	0.16		0.05	0.005			0.004
BS-SU410	Stainless Steel, SUS	0.124	0.35	0.41	0.02	0.008	12.02	0.098	0.017	0.039	0.029	0.015	0.01			0.0002
BS-SU 420	SUS: Stainless Steel 420 / UNS S42000	0.32	0.42	1.0	0.018	0.27	12.8	0.45	0.37	0.12	0.11	0.028	<0.005	0.0001	0.002	0.0005
BS-SU1018E	1018 Carbon steel	0.168	0.227	0.85	0.008	0.016	0.094	0.065	0.021	0.204	0.0296	0.006	<0.005	<0.0005	0.006	0.0003
BS-SU4130+	Steel, low alloyed, SUS	0.29	0.25	0.55	0.015	0.02	0.97	0.09	0.16	0.104		0.006	0.03			
BS-SU4130A	Low alloy steel SUS	0.301	0.246	0.539	0.0104	0.011	0.912	0.09	0.167	0.219	0.0038	0.008	0.024	<0.0005	0.005	
BS-SU 4340	Setting-up Sample for Low alloy Steel 4340	0.411	0.25	0.75	0.008	0.0008	0.87	1.8	0.26	0.13	0.003	0.013	0.032	<0.0005	0.005	0.0002
BS-SU4620+	Steel, low alloyed, SUS	0.21	0.23	0.58	0.01	0.023	0.15	1.69	0.26	0.14	0.002	0.009	0.022			
BS-SU4820A	Low alloy steel SUS	0.197	0.19	0.640	0.008	0.014	0.165	3.27	0.201	0.210	0.001	0.009	0.030	0.0004	0.006	<0.0005
BS-SU 4942	SUS: Steel A193 / UNS K14072	0.39	0.25	0.61	0.009	0.002	0.94	0.13	0.59	0.06	0.27	0.007	0.014	<0.005	0.0009	<0.0005
BS-SU 8620A	Setting-up Sample for AISI 8620, G86200	0.22	0.26	0.81	0.008	0.028	0.54	0.62	0.20	0.16	0.0053	0.006	0.022	0.0002	0.005	0.0003
BS-SU 8620 MOD	Low Alloy Steel	0.233	0.17	0.71	0.014	0.026	0.44	0.38	0.15	0.18	0.003	0.007	0.022	0.0002	0.005	0.0002

Analyte - Measured Values (continued)

Code	Ca	Fe	N	Nb	Pb	Sb	Sn	Ta	Ti	W	Zr		Size	Type
BS-SU321A+	0.0003			0.014	<0.001	<0.01	0.008		0.53	0.04	<0.001		Ø 38x40 mm	SUS
BS-SU 321B	0.0009	69.6	0.02	0.012	0.0002	0.001	0.012		0.29	0.025	0.003		Ø 41x40 mm	SUS
BS-SU347+			0.06	0.79			0.007						Ø 38x40 mm	SUS
BS-SU410	0.0002		0.0284	0.003			0.004		0.003	0.004			Ø 40x40 mm	SUS
BS-SU 420	0.0002	83.9	0.034	0.02	<0.005	<0.005	0.005		0.001	0.048	0.001		Ø 38x 40 mm	SUS
BS-SU1018E	0.0010	98.3		0.001	0.0011	<0.01	0.009	<0.01	<0.001	<0.005	0.0015		Ø 38x150 mm	SUS
BS-SU4130+			0.0057										Ø 44x40 mm	SUS
BS-SU4130A	<0.001	97.4		0.002	<0.0005	<0.01	0.0096	0.009	<0.001	0.005	0.001		Ø 38x40 mm	SUS
BS-SU 4340	0.0002	95.5	0.01	0.004	0.0001		0.008		0.002	0.003	0.002		Ø 38x40 mm	SUS
BS-SU4620+			0.009				0.008		0.002				Ø 44x40 mm	SUS
BS-SU4820A	0.0003	95.2	0.0078	0.003	<0.0005	0.003	0.010	0.006	0.002	0.004	<0.0005		Ø 38x40mm	SUS
BS-SU 4942	<0.005	96.7	0.006	0.001	<0.005		0.006		0.002	0.002	<0.005		Ø 38x40 mm	SUS
BS-SU 8620A	0.0006	(97.1)	0.009	0.003	0.0005		0.009		0.0008		0.0007		Ø 38x40 mm	SUS
BS-SU 8620 MOD	0.0007	(97.6)	0.0092	0.001			0.008		<0.001	<0.005	<0.001		Ø 38x40 mm	SUS

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BS - Setting-Up Samples and Control Samples

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Mg	As	B
BS-SU8740+	Steel, lowalloyed, SUS	0.41	0.24	0.92	0.014	0.014	0.51	0.44	0.225	0.14		0.012	0.019			
BS-SU9310+	Steel, low alloyed, SUS	0.125	0.23	0.57	0.01	0.016	1.29	3.25	0.127	0.19	0.005	0.016	0.026			
BS-SU9310A	Steel, low alloyed, SUS	0.12	0.22	0.57	0.009	0.016	1.3	3.2	0.13	0.19	0.005	0.015	0.026	<0.005	0.004	<0.005
BS-SUCPIC	Iron, SUS	0.0014	0.003	0.054	0.004	0.006	0.01	0.007	0.0014	0.002	<0.001	0.002	0.011	<0.001	0.002	<0.0001
BS-SU D2	Tool Steel SUS	1.52	0.55	0.29	0.024	0.0003	11.34	0.13	0.83	0.075	0.76	0.017	0.008		0.003	0.0002
BS-SU E52100	Setting-up Sample for E52100, G52986	1.00	0.24	0.40	0.016	0.012	1.47	0.046	0.011	0.090	0.0035	0.005	0.017	<0.0005	0.004	0.0001
BS-SULAS13	Low alloy steel SUS	0.088	0.097	1.68	0.067	0.0009	1.30	0.149	0.78	0.425	0.386	0.20	0.261	0.0005	0.03	0.0053
BS SU LAS-13-1	Low Alloy Steel disc 40mmD x 40mm	0.094	0.13	1.72	0.071	0.0008	1.31	0.15	0.8	0.427	0.388	0.202	0.275	0.0003	0.034	0.0062
BS-SULAS14	Low alloy steel SUS	0.748	1.4	0.41	0.0164	0.0293	0.19	1.53	0.041	0.024	0.023	0.031	0.01		0.004	0.0006
BS-SU LF-1	Setting-up Sample for Low Alloy Steel	0.226	0.2	0.75	0.012	0.017	0.014	0.02	0.011	0.03	0.002	0.006	<0.005	<0.005	<0.005	<0.005
BS-SU LF-1A	Setting-up Sample for Low Alloy Steel	0.234	0.21	0.74	0.013	0.02	0.012	0.022	0.013	0.032	0.002	0.005	<0.005	<0.005	<0.005	<0.005
BS-SULF2+	Carbon Steel SUS	0.17	0.24	1.13	0.007	0.008	0.12	0.115	0.035	0.19		0.014	0.04			
BS-SULF2A+	Carbon Steel SUS	0.195	0.224	1.02	0.009	0.023	0.146	0.151	0.024	0.093	0.002	0.007	0.031		0.003	
BS-SULF3+	alloyed Steel SUS	0.17	0.20-0.35	0.83	0.008	0.011	0.11	3.25	0.017	0.07	0.0024	0.01	0.021			

Analyte - Measured Values (continued)

Code	Bi	Ca	Fe	N	Nb	Pb	Sb	Sn	Ta	Te	Ti	W	Zn	Zr		Size	Type
BS-SU8740+				0.0085				0.007								Ø 38x40 mm	SUS
BS-SU9310+				0.0102	0.006			0.014			0.002					Ø 38x40 mm	SUS
BS-SU9310A		<0.005	[94.1]	0.0096	0.008	<0.005		0.014			0.003			<0.005		Ø 38x40 mm	SUS
BS-SUCPIC		<0.005	99.9		<0.001	<0.001	<0.001	<0.001	<0.001		0.003	<0.001		<0.001		48x48x30 mm	SUS
BS-SU D2					0.004	0.0006	0.003	0.005			0.003	0.02				Ø 38x40 mm	SUS
BS-SU E52100		<0.0005	96.7	0.0080	0.0008	<0.0005		0.006			0.0014	<0.005		0.0004		Ø 38x40 mm	SUS
BS-SULAS13	0.027	0.0002	94.1	0.020	0.10	0.0009	0.005	0.055	0.044	0.012	0.095	0.107	0.0021	0.024		Ø 40x40 mm	SUS
BS SU LAS-13-1		0.0002		0.0027	0.113	0.0013	<0.05	0.059	0.046		0.105	0.108	<0.0030	0.027		Ø 40x40 mm	SUS
BS-SULAS14	0.0025	0.0008	95.4	0.0073	0.0069	<0.001	0.023	0.0061	0.004	0.0045	0.0222	0.031	<0.001	0.001		Ø 40x40 mm	SUS
BS-SU LF-1		0.002	[98.71]	0.006	<0.005	0.001		0.002			<0.005	0.001		<0.005		Ø 36x40 mm	SUS
BS-SU LF-1A		0.002	[98.69]	0.006	<0.005	0.001		0.002			<0.005			<0.005		Ø 36x40 mm	SUS
BS-SULF2+				0.0074												Ø 38x40 mm	SUS
BS-SULF2A+		<0.0002		0.008				0.006			<0.001			0.001		Ø 38x150 mm	SUS
BS-SULF3+				0.0067				0.005			0.002					Ø 44x40 mm	SUS

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BAS - Setting-Up Samples and Control Samples

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	As	B	Ca	Fe	N
BAS-SUS A-025	Low Carbon Steel, SUS	0.02	0.01	0.15	<0.005	0.005	0.02	0.05	0.01	0.01	<0.005	0.01	0.07					
BAS-SUS A-075	Low Carbon Steel	0.02	0.01	0.15	<0.005	0.005	0.02	0.05	0.01	0.01	<0.005	0.01	0.07					
BAS-SUS A-150	Low Carbon Steel	0.02	0.01	0.15	<0.005	0.005	0.02	0.05	0.01	0.01	<0.005	0.01	0.07					
BAS-SUS B-025	Low Alloy Steel	0.39	0.29	0.44	0.005	<0.005	1.2	1.5	0.2	0.15	0.01	0.02	0.01	0.005	0.001	<0.001		
BAS-SUS C-025	Low Alloy Steel	0.16	0.17	0.84	0.07	0.05	0.18	3.6	0.1	0.44	0.41	0.06	0.05		0.008	<0.001		0.003
BAS-SUS C-075	Low Alloy Steel	0.16	0.17	0.86	0.07	0.05	0.19	3.5	0.11	0.45	0.41	0.06	0.05		0.008	<0.001		0.003
BAS-SUS C-150	Low Alloy Steel	0.16	0.17	0.84	0.07	0.05	0.18	3.6	0.1	0.44	0.41	0.06	0.05		0.008	<0.001		0.003
BAS-SUS D-025	Low Alloy Steel	0.8	0.8	0.4	0.01	0.03	3	0.1	1.3	0.11	0.12	0.29	0.19		<0.001			0.01
BAS-SUS D-075	Low Alloy Steel	0.8	0.8	0.4	0.01	0.03	3	0.1	1.3	0.11	0.12	0.29	0.19		<0.001			0.01
BAS-SUS D-150	Low Alloy Steel	0.8	0.8	0.4	0.01	0.03	3	0.1	1.3	0.11	0.12	0.29	0.19		<0.001			0.01
BAS-SUS E-025	Highly Alloyed Steel	0.07	0.75	1.5	0.009	0.002	14.7	25.1	1.2	0.04	0.31	0.13	0.21		0.006		53.7	
BAS-SUS E-075	Highly Alloyed Steel	0.08	0.75	1.5	0.007	0.002	15	25.1	1.2	0.02	0.28	0.06	0.22		0.006		53.7	
BAS-SUS E-150	Highly Alloyed Steel	0.07	0.75	1.5	0.009	0.002	14.7	25.1	1.2	0.04	0.31	0.13	0.21		0.006		53.7	
BAS-SUS F-025	Duplex Stainless Steel	0.02	0.53	0.61	0.02	<0.005	25.8	7.2	3.4	0.63	0.06	0.05	0.005	0.005	0.002		60.7	0.25
BAS-SUS F-075	Duplex Stainless Steel	0.02	0.53	0.61	0.02	<0.005	25.8	7.2	3.4	0.63	0.06	0.05	0.005	0.005	0.002		60.7	0.25
BAS-SUS F-150	Duplex Stainless Steel	0.02	0.53	0.61	0.02	<0.005	25.8	7.2	3.4	0.63	0.06	0.05	0.005	0.005	0.002		60.7	0.25
BAS-SUS G-025	Stainless Steel	0.03	0.32	1.7	0.03	0.03	16.8	10	2.1	0.3	0.08	0.15	0.005			0.003		0.08
BAS-SUS G-075	Stainless Steel	0.03	0.32	1.5	0.04	0.03	17	10	2.1	0.36	0.08	0.32	0.004			0.003		0.07
BAS-SUS G-150	Stainless Steel	0.03	0.32	1.7	0.03	0.03	16.8	10	2.1	0.3	0.08	0.15	0.005			0.003		0.08

Analyte - Measured Values (continued)

Code	Nb	Pb	Sn	Ta	Ti	W	Zr	Size	Type
BAS-SUS A-025	<0.005		<0.005		<0.001	<0.005		Ø 44x25 mm	SUS
BAS-SUS A-075	<0.005		<0.005		<0.001	<0.005		Ø 44x75 mm	SUS
BAS-SUS A-150	<0.005		<0.005		<0.001	<0.005		Ø 44x150 mm	SUS
BAS-SUS B-025	0.005	<0.001	0.01		0.01	0.005		Ø 44x25 mm	SUS
BAS-SUS C-025	0.02		0.05		0.04	0.26	0.03	Ø 44x25 mm	SUS
BAS-SUS C-075	0.02		0.04		0.04	0.26	0.03	Ø 44x75 mm	SUS
BAS-SUS C-150	0.02		0.05		0.04	0.26	0.03	Ø 44x150 mm	SUS
BAS-SUS D-025	0.05		0.01		0.1	0.16		Ø 44x25 mm	SUS
BAS-SUS D-075	0.05		0.01		0.1	0.16		Ø 44x75 mm	SUS
BAS-SUS D-150	0.05		0.01		0.1	0.16		Ø 44x150 mm	SUS
BAS-SUS E-025	<0.1				2.2	0.03		Ø 44x25 mm	SUS
BAS-SUS E-075	<0.1				2.1	0.04		Ø 44x75 mm	SUS
BAS-SUS E-150	<0.1				2.2	0.03		Ø 44x150 mm	SUS
BAS-SUS F-025	0.005		<0.005		<0.005	0.63		Ø 42x25 mm	SUS
BAS-SUS F-075	0.005		<0.005		<0.005	0.63		Ø 42x75 mm	SUS
BAS-SUS F-150	0.005		<0.005		<0.005	0.63		Ø 42x150 mm	SUS
BAS-SUS G-025	0.01		0.006	<0.001	0.003	0.11	0.002	Ø 44x25 mm	SUS
BAS-SUS G-075	0.01		0.006	<0.001	0.002	0.12	0.003	Ø 44x75 mm	SUS
BAS-SUS G-150	0.01		0.006	<0.001	0.003	0.11	0.002	Ø 44x150 mm	SUS

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IMZ - Setting-Up Samples and Control Samples

		Analyte - Measured Values																
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	As	B	Nb	Ti	W
IMZ-S-04	Set-Up Sample Steel	0.5	0.2	0.8	0.03	(0.2)	4.3	0.53	6.5		1.5	10.6						
IMZ-S-06	Set-Up Sample Steel	0.25	0.25	1.2	0.01	0.01	10.5	19.6	0.5	0.04						1.3		0.4
IMZ-S-07	Set-Up Sample Steel	0.18	1.7	0.23	0.06	0.1	2.1	2.0	0.12	0.17	0.15	0.02					0.02	2.3
IMZ-S-10	Set-Up Sample Steel	0.12	0.32	0.65	0.01	0.01	28.0	1.1		2.4						0.6	1.4	
IMZ-S-11	Set-Up Sample Steel	0.095	1.8	0.35	0.01	0.015	6.5	0.66										
IMZ-S-13	Set-Up Sample Steel	0.14	0.6	0.6	0.01	0.01	10.8	1.1	0.8	0.05	0.7					0.45	0.02	0.9
IMZ-S-15	Set-Up Sample Steel	0.32	2.0	0.7	0.01	0.01	11.9	7.3										
IMZ-S-16	Set-Up Sample Steel	0.1	1.3	0.65	0.015	0.01	14.3	0.59		0.12			0.5				0.2	
IMZ-S-21	Set-Up Sample Steel	0.26	0.44	0.5	0.02	0.02	18.3	2.2	0.4	0.3	0.25						0.12	0.4
IMZ-S-22	Set-Up Sample Steel	1.1	0.94	1.1	0.01	0.02	19.1	0.63		0.03	0.033	0.02		0.002	0.001		0.02	
IMZ-S-24	Set-Up Sample Steel	0.13	0.95	0.7	0.01	0.02	26.8	0.76										
IMZ-S-25	Set-Up Sample Steel	0.2	2.5	1.1	0.03	0.01	28.0	4.5	0.6	0.04	0.18							0.5

Code		Size	Type
IMZ-S-04		Ø 43x35 mm	SUS
IMZ-S-06		Ø 45x20-30 mm	SUS
IMZ-S-07		Ø 40x30 mm	SUS
IMZ-S-10		Ø 45x30 mm	SUS
IMZ-S-11		Ø 40x20-30 mm	SUS
IMZ-S-13		Ø 40x23-35 mm	SUS
IMZ-S-15		Ø 40x23 mm	SUS
IMZ-S-16		Ø 40x30 mm	SUS
IMZ-S-21		Ø 40x30 mm	SUS
IMZ-S-22		Ø 45x23-35 mm	SUS
IMZ-S-24		Ø 40x30 mm	SUS
IMZ-S-25		Ø 45x25-45 mm	SUS

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IMZ - Setting-Up Samples and Control Samples

		Analyte - Measured Values																		
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	B	Nb	Ti	W	Zr	Size	Type
IMZ-S-27	Set-Up Sample Steel	0.23	2.0	1.7	0.02	0.01	15.5	35.0											Ø 40x20-25 mm	SUS
IMZ-S-28	Set-Up Sample Steel	0.03	0.75	1.6	0.01	0.01	16.3	14.3	2.25					0.005				0.005	Ø 40x30 mm	SUS
IMZ-S-30	Set-Up Sample Steel	0.2	0.93	1.6	0.02	0.01	18.7	12.6							1.0				Ø 40x23 mm	SUS
IMZ-S-31	Set-Up Sample Steel	0.03	0.3	1.5	0.01	0.01	17.6	11.0						0.005					Ø 40x30 mm	SUS
IMZ-S-33	Set-Up Sample Steel	0.1	0.75	1.2	0.03	0.01	19.6	8.3					0.1			0.6			Ø 40x35 mm	SUS
IMZ-S-34	Set-Up Sample Steel	0.11	0.62	1.7	0.015	0.01	20.8	9.1	1.6							0.5	0.5		Ø 40x30 mm	SUS
IMZ-S-36	Set-Up Sample Steel	0.06	0.9	2.0	0.01	0.01	25.5	29.0	3.1	3.0	0.05	0.03				0.8			Ø 40x35 mm	SUS
IMZ-S-37	Set-Up Sample Steel	0.25	1.1	1.55	0.03	0.01	25.0	12.3	0.3	0.05	0.18						0.3		Ø 40x20 mm	SUS
IMZ-S-501	Set-Up Sample Steel	0.15	0.4	0.32	0.02	<0.005	13.2	0.11											Ø 47x25 mm	SUS
IMZ-S-502	Set-Up Sample Steel	0.31	2.8	0.47	0.02	<0.005	12.8	6.7											Ø 47x25 mm	SUS
IMZ-S-503	Set-Up Sample Steel	0.14	0.37	0.47	0.03	<0.005	11.4	0.19	0.62		0.3								Ø 47x25 mm	SUS
IMZ-S-504	Set-Up Sample Steel	0.03	0.56	1.43	0.02	0.01	18.2	0.17											Ø 50x23 mm	SUS

Japanese SEI-KTC 1 - Setting-Up Samples and Control Samples (Set)

		Analyte - Measured Values														
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al(i)	Al(s)	As	B
SEI-KTC-1/1-ST01-G	Low alloy steel for cal. curve (set of 10 only)	0.0009	>0.01	0.01	0.001	0.002	0.01	0.01	0.001	0.01	0.001	0.002	<0.001	0.001	<0.001	0.0001
SEI-KTC-1/1-ST02-D	Low alloy steel for cal. curve (set of 10 only)	0.1	0.61	0.21	0.003	0.005	3.99	0.05	0.5	0.07	0.4	0.01	0.001	0.003		
SEI-KTC-1/1-ST03-D	Low alloy steel for cal. curve (set of 10 only)	0.16	0.4	0.76	0.002	0.009	3.24	0.1	0.4	0.7	0.022	0.15	<0.001	0.012	0.01	
SEI-KTC-1/1-ST04-D	Low alloy steel for cal. curve (set of 10 only)	0.2	0.05	2.01	0.01	0.016	2.51	0.52	0.32	0.1		0.05	<0.001	0.083	0.021	
SEI-KTC-1/1-ST05-D	Low alloy steel for cal. curve (set of 10 only)	0.24	0.26	1.63	0.013	<0.001	2.04	1.02	0.1	0.4	0.31	0.1	0.002	0.036	0.044	
SEI-KTC-1/1-ST06-D	Low alloy steel for cal. curve (set of 10 only)	0.36	0.36	1.33	0.049	0.001	1.54	1.53	0.2	0.5	0.052	0.2	0.001	0.02	0.062	0.0005
SEI-KTC-1/1-ST07-D	Low alloy steel for cal. curve (set of 10 only)	0.51	0.3	1.02	0.04	0.029	1.02	2.05	0.62	0.2	0.11		0.001	0.029		0.0009
SEI-KTC-1/1-ST08-D	Low alloy steel for cal. curve (set of 10 only)	0.66	0.16	0.5	0.031	0.023	0.51	2.54	1.01	0.31	0.15		<0.001	0.056		0.002
SEI-KTC-1/1-ST09-D	Low alloy steel for cal. curve (set of 10 only)	0.8	0.2	0.31	0.019	<0.001	0.1	3.26	0.84	0.15	0.21		<0.001	0.064		0.0038
SEI-KTC-1/1-ST10-D	Low alloy steel for cal. curve (set of 10 only)	1.05	0.1	0.1	0.006	0.022	0.07	4.06	0.005	0.07	0.5		0.001	0.09		0.0088

	Analyte - Measured Values (continued)							
Code	Ca	Nb	Sn	Ti	W		Size	Type
SEI-KTC-1/1-ST01-G	0.0001	0.001	0.001	0.001	<0.01		Ø 35x20 mm	SUS
SEI-KTC-1/1-ST02-D		0.1	0.062	0.021			Ø 35x20 mm	SUS
SEI-KTC-1/1-ST03-D		0.069	0.042	0.1			Ø 35x20 mm	SUS
SEI-KTC-1/1-ST04-D		0.019	0.021	0.31			Ø 35x20 mm	SUS
SEI-KTC-1/1-ST05-D	0.0002	0.04	0.01	0.011			Ø 35x20 mm	SUS
SEI-KTC-1/1-ST06-D	0.0006	0.01		0.054			Ø 35x20 mm	SUS
SEI-KTC-1/1-ST07-D	0.0018			0.2	0.05		Ø 35x20 mm	SUS
SEI-KTC-1/1-ST08-D	0.003			0.16	0.12		Ø 35x20 mm	SUS
SEI-KTC-1/1-ST09-D	0.0031				0.22		Ø 35x20 mm	SUS
SEI-KTC-1/1-ST10-D					0.15		Ø 35x20 mm	SUS

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Setting-Up Samples and Control Samples

Japanese SEI-KTC 2 - Setting-Up Samples and Control Samples (Set)

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al(i)	Al(s)	As	B	Ca
SEI-KTC-2-A-G	Low alloy steel for standardisation	1.0	0.05	0.01	0.002	0.001		4.09		0.11	0.03		<0.001	0.086			
SEI-KTC-2-B-G	Low alloy steel for standardisation	0.01	0.57	0.52	0.045		3.98	0.5	0.2	0.69		0.01			0.05	0.0085	0.0035
SEI-KTC-2-C-G	Low alloy steel for standardisation	0.11		1.96		0.028	0.5		1.0		0.5	0.2	0.001	0.019			

Analyte - Measured Values (continued)

Code	Nb	Sn	Ti	W		Size	Type
SEI-KTC-2-A-G	0.1		0.36	0.19		Ø 35x20 mm	SUS
SEI-KTC-2-B-G		0.093	0.03			Ø 35x20 mm	SUS
SEI-KTC-2-C-G						Ø 35x20 mm	SUS

Japanese SEI-KTC-5 - Setting-Up Samples and Control Samples (Set)

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	Co	Al(i)	Al(s)	As	Nb	Ti	Size	Type
SEI-KTC-5-ST31-B	Stainless steel for cal. curve (Set of 8 only)	0.068	1.24	0.51	0.023	0.005	11.23	3.91	0.71	0.019	0.19	0.003	0.1	0.1	0.9	0.31	Ø 35x20 mm	SUS
SEI-KTC-5-ST32-B	Stainless steel for cal. curve (Set of 8 only)	0.04	0.52	1.16	0.03	0.007	12.71	2.56	1.01	0.01	0.014	0.004	0.013	0.008	0.082	0.051	Ø 35x20 mm	SUS
SEI-KTC-5-ST33-B	Stainless steel for cal. curve (Set of 8 only)	0.044	0.032	0.3	0.008	0.022	15.12	1.03	1.19	0.1	0.1	0.004	0.031	0.001	0.3	0.007	Ø 35x20 mm	SUS
SEI-KTC-5-ST34-B	Stainless steel for cal. curve (Set of 8 only)	0.084	0.78	0.99	0.025	0.004	16.99	0.48	0.48	0.04	0.051	0.006	0.045	0.009	0.083	0.098	Ø 35x20 mm	SUS
SEI-KTC-5-ST35-B	Stainless steel for cal. curve (Set of 8 only)	0.22	0.58	1.35	0.002	0.029	24.14	0.05	0.029	<0.01	0.005	0.007	0.057	<0.001	0.007	0.005	Ø 35x20 mm	SUS
SEI-KTC-5-ST36-B	Stainless steel for cal. curve (Set of 8 only)	0.15	0.14	0.43	0.014	0.009	22.31	0.11	0.043	<0.01	0.003	0.008	0.001	<0.001	0.001	0.005	Ø 35x20 mm	SUS
SEI-KTC-5-ST37-B	Stainless steel for cal. curve (Set of 8 only)	0.11	0.99	0.74	0.007	0.019	19.541	0.2	0.2	<0.01	0.002	0.002	0.001	<0.001	<0.001	0.003	Ø 35x20 mm	SUS
SEI-KTC-5-ST38-B	Stainless steel for cal. curve (Set of 8 only)	0.3	0.4	0.19	0.01	0.013	25.52	0.01	0.004	<0.01	0.002	0.002	0.001	<0.001	<0.001	0.003	Ø 35x20 mm	SUS

Japanese SEI-KTC-6 - Setting-Up Samples and Control Samples (Set)

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	Co	Al(i)	Al(s)	As	Nb	Ti	Size	Type
SEI-KTC-6-1-G-B	Stainless steel for standardisation (set of 3 only)	0.26	0.19	0.21	0.008	0.024	26.78	0.01	0.046	0.01	0.003	0.004	0.002	<0.001	0.013	0.01	Ø 35x20 mm	SUS
SEI-KTC-6-1-H-B	Stainless steel for standardisation (set of 3 only)	0.088	0.5	0.47	0.009	0.01	17.95	0.57	0.49	0.04	0.054	0.005	0.031	0.011	0.094	0.094	Ø 35x20 mm	SUS
SEI-KTC-6-1-I-C	Stainless steel for standardisation (set of 3 only)	0.031	1.26	1.37	0.029	0.005	11.85	3.87	1.14	0.19	0.19	0.005	0.086	0.075	0.98	0.3	Ø 35x20 mm	SUS

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Setting-Up Samples and Control Samples

Japanese SEI-KTC-15 - Setting-Up Samples and Control Samples (Set)

		Analyte - Measured Values										
Code	Description	C	Si	Mn	P	S	Cr	Al	N(i)	N)(s)	Size	Type
SEI-KTC-15 N-1	N for cal. Curve	0.015	0.1	0.1	0.002	0.003	0.21	0.05	0.0001	0.0012	Ø 35x20 mm	SUS
SEI-KTC-15 N-2	N for cal. Curve	0.014	0.1	0.1	0.002	0.003	0.29	0.048	0.0002	0.0048	Ø 35x20 mm	SUS
SEI-KTC-15 N-3	N for cal. Curve	0.012	0.1	0.1	0.002	0.003	0.19	0.048	0.0003	0.0076	Ø 35x20 mm	SUS
SEI-KTC-15 N-4	N for cal. Curve	0.012	0.1	0.1	0.003	0.004	0.2	0.048	0.0002	0.011	Ø 35x20 mm	SUS
SEI-KTC-15 N-5	N for cal. Curve	0.012	0.1	0.11	0.003	0.004	0.41	0.05	0.0008	0.0194	Ø 35x20 mm	SUS

HB - Setting-Up Samples and Control Samples

		Analyte - Measured Values															
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Nb	W	Size	Type
HB MW-04+	Steel, SUS	0.48	0.17	0.63	0.005	0.017	4.3	0.53	6		1.54	11.8			0.45	Ø 40x300 mm	SUS
HB MW-04+(30MM)	Steel, SUS	0.48	0.17	0.63	0.005	0.017	4.3	0.53	6		1.54	11.8			0.45	Ø 40x30 mm	SUS
HB MW-06+	Steel, SUS	0.25	0.25	1.12	0.014	0.008	10.4	19.84	0.51	0.04				1.33	0.42	Ø 40x30 mm	SUS
HB MW-23K+	Steel, SUS	0.113	1.7	0.73	0.016	0.011	23.69	0.59		0.26			0.75			Ø 40x30 mm	SUS

SUS for older ARL

		Analyte - Measured Values															
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	As	B	Pb	Sb
OES-8RE12	8 RE12 - High Purity Iron, SUS	<0.005				<0.003	<0.005	<0.010	0.005	<0.01		<0.002					
OES-RE13	5RE13 - Pure Iron, SUS			0.05	0.003	0.005	0.01	0.02		0.01	0.001		0.001	0.001		0.001	0.001
OES-RH12	1RH12 - MnCr-Steel, SUS	1	0.09	13.1	0.044	0.022	0.5	0.192	0.2	0.15	0.004						
OES-RH13	4RH13 - CrMoWCo-Steel, SUS	0.925	0.328	0.28	0.029	0.022	4.175		4.729		1.755	4.561					
OES-RH18	5RH18 - WCoCrVMo-Steel, SUS	1.33	0.22	0.27	0.028	0.014	3.85		0.71		3.52	4.64					
OES-RH30	6RH30 - CrNiMoNb-Steel, SUS	0.041	0.23	1.69		0.003	16.69	11.14	1.953	0.069	0.133		0.031		0.0025	0.041	

	Analyte - Measured Values (continued)					
Code	Sn	Ti	W		Size	Type
OES-8RE12		<0.001			Ø 40x40 mm	SUS
OES-RE13	0.001	0.001			Ø 40x40 mm	SUS
OES-RH12	0.009				Ø 40x40 mm	SUS
OES-RH13			6.099		Ø 40x40 mm	SUS
OES-RH18			11.66		Ø 40x40 mm	SUS
OES-RH30	0.014				Ø 40x40 mm	SUS

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CKD - Setting-Up Samples and Control Samples

		Analyte - Measured Values															
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	As	B	Fe	Pb	Sb
CKD-163SUS+(075)	Steel, SUS	1.3	0.88	0.2	0.03	0.02	0.07	0.07	0.03	0.2	0.00	0.02	0.02	0.03				
CKD-163SUS+(150)	Steel, SUS	1.3	0.88	0.2	0.03	0.02	0.07	0.07	0.03	0.2	0.00	0.02	0.02	0.03				
CKD-163SUS+(300)	Steel, SUS	1.3	0.88	0.2	0.03	0.02	0.07	0.07	0.03	0.2	0.00	0.02	0.02	0.03				
CKD-165SUS+(075)	Steel, SUS	0.16	0.21	1.6	0.09	0.01	0.17	0.16	0.06	0.1	0.02	0.00	0.01	0.02	0.015			
CKD-165SUS+(150)	Steel, SUS	0.16	0.21	1.6	0.09	0.01	0.17	0.16	0.06	0.1	0.02	0.00	0.01	0.02				
CKD-165SUS+(300)	Steel, SUS	0.16	0.21	1.6	0.09	0.01	0.17	0.16	0.06	0.1	0.02	0.00	0.01	0.02	0.015			
CKD-DC+(30)	Steel, SUS	0.4	0.5	0.7	0.05	0.01	0.3	0.3	0.01	0.5	0.00	0.02	0.05	0.01	0.005			0.01
CKD-DC+(040)	Steel, SUS	0.4	0.5	0.7	0.05	0.01	0.3	0.3	0.01	0.5	0.00	0.02	0.05	0.01	0.005			0.01
CKD-DC+(300)	Steel, SUS	0.4	0.5	0.7	0.05	0.01	0.3	0.3	0.01	0.5	0.00	0.02	0.05	0.01	0.005			0.01
CKD-DS1+(1)	Pure Iron, SUS	0.05	0.14	0.07	0.003	0.005	0.02	0.03	0.000	0.04	0.000	0.005	0.05	0.003		99.5	0.001	0.000

	Analyte - Measured Values (continued)						
Code	Sn	Ti	W	Zr	Size	Type
CKD-163SUS+(075)	0.01	0.10	0.00		Ø 45x75 mm	SUS
CKD-163SUS+(150)	0.01	0.10	0.00		Ø 45x150 mm	SUS
CKD-163SUS+(300)	0.01	0.10	0.00		Ø 45x300 mm	SUS
CKD-165SUS+(075)	0.02	0.01	0.02		Ø 45x75 mm	SUS
CKD-165SUS+(150)	0.02	0.01	0.02		Ø 45x150 mm	SUS
CKD-165SUS+(300)	0.02	0.01	0.02		Ø 45x300 mm	SUS
CKD-DC+(30)	0.01	0.025	0.00		Ø 45x30 mm	SUS
CKD-DC+(040)	0.01	0.025	0.00		Ø 45x40mm	SUS
CKD-DC+(300)	0.01	0.025	0.00		Ø 45x300 mm	SUS
CKD-DS1+(1)	0.001	0.000	0.000	0.000	25x40x50 mm	SUS

VASKUT - Setting-Up Samples and Control Samples

		Analyte - Measured Values														
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Al	Nb	Ti	Size	Type
VASKUT-K3	Ball Bearing Steel	1.03	0.32	0.46	0.02	0.01	1.63	0.18		0.09					Ø 32-35x19 mm	CRM
VASKUT-K4	Spring Steel	0.52	0.46	0.84	0.02	0.025	1.24	0.1		0.28	0.2				Ø 32-35x19 mm	CRM
VASKUT-K6	Tool Steel	0.51	0.3	0.79	0.02	0.026	0.96	1.72	0.37	0.26					Ø 32-35x19 mm	CRM
VASKUT-K7	Stainless Steel aust.	0.063	0.89	1.44	0.026	0.012	17.8	10.45		0.2				0.27	Ø 32-35x19 mm	CRM
VASKUT-K8	Steel, creep-resistant	0.061	1.38	1.1	0.026	0.017	23.5			0.18		1.53			Ø 32-35x19 mm	CRM
VASKUT-K9	Construction Steel	0.096	0.59	1.53	0.01	0.018	0.64	0.97	0.56	0.73	0.27	0.01	0.04	0.11	Ø 32-35x19 mm	CRM
VASKUT-K10/C	Stainless Steel aust.	0.13	0.88	1.77	0.022	0.02	17.5	11.2	2.98	0.16			0.98		Ø 32-35x19 mm	CRM

Values listed in mass %: ( ) Uncertified Value,

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Miscellaneous - Setting-Up Samples and Control Samples

		Analyte - Measured Values													
Code	**Description**	**C**	**Si**	**Mn**	**P**	**S**	**Cr**	**Ni**	**Mo**	**Cu**	**V**	**Co**	**Al**	**As**	**Nb**
BAM SUS-1 R	For spectrometric analysis of Low alloyed steels	0.9	0.8	1.1	0.02	0.017	1.7	2.9	0.9	0.7	0.5	0.3			0.6
BR SX5	Stainless Steel	0.03	0.5	1.1	0.02	0.01	17.04	19.2	2	2.1		0.08	<0.01	<0.001	0.2
TECH-PV101-1	Reference material for steel grade type 42CrMo4		0.177	0.798	0.014	0.027	1.013	0.091	0.099	0.108					
TECH-PV112-1	Reference Material for Grade 316Ti Stainless Steel Alloy		0.515	1.577	0.018	0.023	17.56	11.14	2.03	0.102					

	Analyte - Measured Values (continued)					
Code	**Ti**	**W**		**Size**	**Form**	**Type**
BAM SUS-1 R		0.7		Ø 50x42mm	HIP	SUS
BR SX5				Ø 40x40 mm		SUS
TECH-PV101-1				Ø 40x25 mm		SUS
TECH-PV112-1	0.394			Ø 40x25 mm		SUS

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ARMI - Chips / Powders

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Ce	Mg
IARM-2H-C	Stainless Steel, AISI 304 / UNS S30400, chips	0.05	0.248	1.86	0.032	0.0278	18.28	8.23	0.264	0.437	0.066	0.13	0.0034	(<0.005)	(<0.025)
IARM-3D-C	Stainless Steel, AISI 309 / UNS S30900, chips	0.059	0.32	1.67	0.024	0.0008	22.53	12.05	0.32	0.25	0.133	0.083	0.004		
IARM-3E-C	Stainless Steel, AISI 309 / UNS S30900, chips	0.0553	0.307	1.62	0.0259	0.0009	22.47	11.99	0.215	0.259	0.126	0.12	0.0045		(0.0003)
IARM-4F-C	Stainless Steel, AISI 310 / UNS S31000, chips	0.047	0.434	1.17	0.0795	0.0015	24.5	20.1	0.142	0.146	0.146	0.067	0.015		(<0.002)
IARM-4G-C	Stainless Steel, AISI 310 / UNS S31000, chips	0.0454	0.63	1.36	0.027	0.0008	24.9	19.2	0.58	0.32	0.092	0.085	0.008		0.007
IARM-5I-C	Stainless Steel, AISI 316 / UNS S31600, chips	0.049	0.435	1.443	0.0279	0.033	16.67	10.04	2.027	0.487	0.064	0.185	0.004	(<0.005)	(<0.005)
IARM-6I-C	Stainless & High Temperature Steel, AISI 321 / S32100	0.049	0.31	1.76	0.0208	0.023	17.76	9.20	0.133	0.202	0.048	0.052	0.084	(<0.005)	(<0.03)
IARM-6J-C	Stainless & High Temperature Steel, AISI 321 / S32100	0.045	0.62	1.52	0.028	0.002	17.74	9.0	0.387	0.383	0.081	0.191	0.0195		(<0.001)
IARM-8F-C	Stainless & High Temperature Steel, AISI 347 / S34700	0.048	0.468	1.54	0.033	0.01	17.36	9.02	0.424	0.454	0.084	0.155	0.004		(<0.0002)
IARM-8G-C	Stainless Steel, AISI 347 / UNS S34700, chips	0.042	0.36	1.468	0.0327	0.0126	17.2	9.02	0.359	0.39	0.062	0.162	0.003		(<0.0200)
IARM-8H-C	Stainless & High Temperature Steel, AISI 347 / S34700	0.049	0.4	1.81	0.025	0.002	17.14	9.08	0.237	0.192	0.049	0.083	0.005		(<0.001)
IARM-8I-C	Stainless & High Temperature Steel, AISI 347 / S34700	0.0424	0.38	1.395	0.0352	0.0118	17.08	9.01	0.416	0.441	0.057	0.301	0.003		
IARM-9D-C	Stainless Steel, AISI 410 / UNS S41000, chips	0.143	0.38	0.57	0.033	0.028	12.51	0.200	0.038	0.11	0.022	0.0213	0.003		
IARM-10D-C	Stainless Steel, AISI 416 / UNS S41600, chips	0.11	0.475	1.11	0.0178	0.334	12.42	0.291	0.148	0.192	0.051	0.0187	0.0027		(<0.09)
IARM-11D-C	Stainless Steel, AISI 430 / UNS S43000, chips	0.070	0.83	0.4	0.023	0.004	17.35	0.60	0.075	0.085	0.052	0.024	0.015		0.0003
IARM-12B-C	Stainless Steel, AISI 431 / UNS S43100, chips	0.174	0.56	0.60	0.016	0.003	16.02	2.15	0.057	0.143	0.037	0.018	0.003		
IARM-12C-C	Stainless Steel, AISI 431 / UNS S43100, chips	(0.155)	(0.34)	(0.55)	(0.022)	(0.0032)	(15.78)	(2.23)	(0.125)	(0.33)	(0.04)	(0.048)	(0.004)		(0.0002)
IARM-13D-C	Stainless Steel, AISI 440C / UNS S44004, chips	1.04	0.614	0.697	0.0195	0.0012	16.36	0.256	0.488	0.184	0.058	0.0212	0.006		

Analyte - Measured Values (continued)

Code	Ag	As	B	Bi	Ca	N	Nb	Pb	Sb	Se	Sn	Ta	Ti	W	Zn	Zr	Size	Form	Type
IARM-2H-C		0.007	0.0005		(0.0021)	0.08	0.0099	(<0.003)	(0.0018)	(<0.03)	0.011	0.006	0.0019	0.022	(<0.006)	0.003	100 g		CRM
IARM-3D-C		(0.005)	0.0005		(0.001)	0.072	0.008				0.008	(0.003)	0.0024	0.02			100 g		CRM
IARM-3E-C		(0.005)	0.0005		0.0015	0.063	0.014	0.0003	(0.0013)	(<0.022)	0.007	(0.005)	0.0022	0.018	(0.0004)	0.0018	100 g		CRM
IARM-4F-C		0.003	0.0012		(0.002)	0.056	0.007	(<0.001)	(0.001)	(0.001)	0.005	0.007	31	12	(0.001)	0.002	100 g		CRM
IARM-4G-C		0.005	0.0032		(0.001)	0.058	0.008	(0.0005)	(0.001)	(0.001)	0.008	0.008	0.029	0.017	(0.0005)	0.002	100 g		CRM
IARM-5I-C		0.006	0.0006		(0.0016)	0.048	0.0133	(0.0001)	(0.0019)	(0.001)	0.008	(0.006)	0.002	0.185	(0.005)	(0.002)	100 g		CRM
IARM-6I-C		(0.005)	0.0034		(0.0004)	0.013	0.018	(<0.02)	(0.0008)	(<0.03)	0.0060	(<0.01)	0.60	0.023	(0.003)	(0.003)	100 g		CRM
IARM-6J-C		(<0.04)	0.0024		(<0.001)	0.0109	0.01	(<0.03)	(<0.005)	(<0.001)	0.009	(0.01)	0.34	0.026	(<0.001)	(<0.002)	100 g		CRM
IARM-8F-C	(<0.0002)	(0.007)	(0.001)	(<0.001)	(0.0004)	0.042	0.64	(0.002)		(0.0025)	0.011	0.005	0.003	0.029	(<0.006)	(<0.012)	100 g		CRM
IARM-8G-C		(0.007)	0.0005		(<0.0005)	0.046	0.53	(<0.02)	(<0.02)	(0.01)	0.0107	0.004	0.0024	0.032	(<0.005)	0.002	100 g		CRM
IARM-8H-C		(<0.01)	(0.0002)		(<0.002)	0.027	0.48	(<0.03)	(<0.002)	(<0.001)	0.008	(0.01)	0.0027	0.016	(<0.001)	(<0.002)	100 g		prov.
IARM-8I-C		(<0.008)	(0.0005)		(<0.001)	0.052	0.6	(<0.03)	(<0.002)	(<0.001)	0.012	(<0.005)	0.008	0.06	(<0.001)	(<0.005)	100 g		CRM
IARM-9D-C		0.003	0.0005			0.0225	0.0023				0.006	0.004	0.0016	0.004			100 g	W	CRM
IARM-10D-C		0.007	0.002		(0.0011)	0.0241	0.0027	(0.0003)	(0.0022)	(<0.02)	0.01		0.0015	0.005	(0.006)	(<0.005)	100 g		CRM
IARM-11D-C		0.005	0.0006		0.002	0.021	0.009	0.0005		0.001	0.006	0.003	0.003	0.008	0.004	0.001	100 g		CRM
IARM-12B-C			0.0003			0.061	0.011	(<0.0005)			0.006		0.003	0.014		0.002	100 g		CRM
IARM-12C-C		(0.004)	(0.0004)		(0.0007)	(0.056)	(0.02)	(0.0005)			(0.008)	(0.0005)	(0.002)	(0.015)		(0.001)	100 g		CRM
IARM-13D-C		0.008	0.0005		(0.0007)	0.0492	0.0074	(<0.0090)	0.0027	(<0.02)	0.011	0.004	0.0035	0.046	(<0.02)	0.0017	100 g		CRM

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ARMI - Chips / Powders

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Ce	Mg	As
IARM-14B-C	Stainless Steel, AISI 446 / UNS S44600, chips	0.016	0.51	0.426	0.022	0.0015	23.60	0.29	0.095	0.071	0.11	0.030	0.004		(<0.001)	(<0.005)
IARM-14C-C	Stainless Steel, AISI 446 / UNS S44600, chips	0.061	0.63	0.385	0.021	0.0015	24.9	0.364	0.101	0.19	0.078	0.043	0.0041			0.003
IARM-15B-C	Stainless Steel, Custom 450 / UNS S45000, chips	0.047	0.33	0.39	0.013	0.001	14.53	6.94	0.82	1.53	0.033	0.24	0.006			
IARM-15C-C	Stainless & High Temperature Steel, Custom 450 / S45000	0.032	0.26	0.76	0.019	0.0018	14.39	6.35	0.722	1.54	0.041	0.024	0.005	(<0.01)	(<0.005)	0.0044
IARM-16C-C	Stainless Steel, Custom 455 / UNS S45500, chips	0.003	0.03	0.024	0.007	0.0046	11.34	8.23	0.009	2.08	0.070	0.017	0.072			0.003
IARM-17D-C	Stainless Steel, Nitronic 50 / UNS S20910, chips	0.041	0.416	4.15	0.026	0.0018	21.06	11.83	1.52	0.412	0.118	0.23	0.0032		0.0003	0.005
IARM-19C-C	Stainless Steel, Nitronic 40 / UNS S21900, chips	0.012	0.31	9.02	0.027	0.0007	19.51	6.40	0.40	0.45	0.090	0.087	0.007			(0.004)
IARM-20C-C	Stainless Steel, Greek Ascoloy / UNS S41800, chips	0.18	0.35	0.30	0.018	0.007	12.15	1.93	0.12	0.060	0.086	0.031	0.004			
IARM-22C-C	Stainless Steel, AISI 15-5PH / USN S15500, chips	0.042	0.39	0.63	0.027	0.0004	14.28	4.63	0.48	3.24	0.068	0.086	0.006			0.004
IARM-23D-C	Stainless Steel, 17-4 PH / UNS S17400, chips	0.038	0.49	0.52	0.022	0.0006	15.16	4.88	0.159	3.27	0.053	0.041	0.005		(0.0004)	(0.005)
IARM-24B-C	Stainless Steel, Invar 36 / UNS K93601, chips	0.053	0.28	0.82	0.009	0.0010	0.121	35.86	0.011	0.052	<0.005	0.036	0.002			<0.005
IARM-27E-C	Carbon, Low Alloy Steel, CP Iron / K00095	0.0023	0.003	0.001	0.001	0.0008	(0.001)	0.005	(0.001)	0.001	0.0005	0.002	0.001			(0.001)
IARM-27F-C	Carbon, Low Alloy Steel, CP Iron / K00095, chips	0.002	0.004	<0.005	<0.005	0.0011	<0.005	<0.005	<0.005	<0.005	0.0007	0.0025	0.0009		<0.001	0.0023
IARM-27G-C	Carbon, Low Alloy Steel, CP Iron / K00095	0.003	0.07	0.003	0.003	0.0011	0.043	0.045	(0.002)	0.04	(0.001)	0.0009	0.0013		(0.0002)	0.0016
IARM-28A-C	Carbon Steel, AISI 1018 / UNS G10180, chips	0.20	0.22	0.69	0.011	0.023	0.15	0.099	0.031	0.247	0.006	0.010	0.003			0.006
IARM-28K-C	Carbon Steel, AISI 1018 / UNS G10180, chips	0.174	0.29	0.805		0.027	0.107	0.064	0.0209	0.170	0.0010	0.006	0.0019		(<0.005)	(0.005)
IARM-29E-C	Carbon Steel, AISI 1117 / UNS G11170, Chips	0.193	0.239	1.19	0.0157	0.121	0.105	0.082	0.0269	0.253	0.0255	0.008	0.0032		(0.0003)	0.0085
IARM-30D-C	Low-Alloy Steel, AISI 4140 / UNS G41400, chips	0.391	0.24	0.83	0.013	0.020	0.978	0.159	0.220	0.241	0.003	0.013	0.035		0.005	0.008

Analyte - Measured Values (continued)

Code	B	Bi	Ca	Cd	Fe	N	Nb	Pb	Sb	Se	Sn	Ta	Ti	W	Zn	Zr	Size	Form	Type
IARM-14B-C	0.0004		(<0.005)			0.043	0.006	(<0.001)			0.005	(<0.001)	0.0024	0.011		(<0.005)	100 g		CRM
IARM-14C-C	0.0005					0.058	0.013				0.004	(0.002)	0.013	0.031		(0.001)	100 g	W	CRM
IARM-15B-C						0.0355	0.65				0.009		0.005	0.12			100 g		CRM
IARM-15C-C	0.0006		(0.0004)			0.0148	0.63	(0.003)	(0.003)	(0.0003)	0.009	(0.004)	0.002	0.02	(0.01)	0.003	100 g		CRM
IARM-16C-C	0.0011					0.003	0.248				0.003		1.16	0.008		0.0010	100 g		CRM
IARM-17D-C	0.001		0.002			0.311	0.14	0.0002	0.001	0.001	0.0044	0.003	0.010	0.056	0.0004	0.002	100 g		CRM
IARM-19C-C	0.0011					0.32	0.028				0.0061	0.005	0.003	0.037			100 g		CRM
IARM-20C-C						0.0222	0.010				0.004		0.003	2.59			100 g	W	CRM
IARM-22C-C	0.0006					0.030	0.290				0.013	(0.004)	0.002	0.031		(0.002)	100 g		CRM
IARM-23D-C	0.0019		0.0013			0.037	0.29	(0.001)			0.0059	0.002	0.003	0.011	(0.001)	(0.001)	100 g		CRM
IARM-24B-C	(0.001)				62.6	0.0017	<0.01			0.19	0.0018	<0.005	0.002	<0.04		<0.005	100 g	W	CRM
IARM-27E-C	0.0005					0.0001	0.001	(0.001)			(0.001)		0.0005	(0.001)		(0.0003)	100 g		CRM
IARM-27F-C	<0.002	<0.01	<0.001	<0.003		<0.002	<0.002	<0.005	<0.001	<0.005	<0.002	<0.005	<0.002	<0.005	<0.002	<0.005	100 g		CRM
IARM-27G-C	(0.0006)	(<0.007)	(0.0002)	(0.001)		(0.0003)	(0.002)	(0.002)	(<0.01)	(<0.01)	(0.001)	(<0.02)	(<0.005)	(<0.005)	(<0.005)	(0.003)	100 g		prov.
IARM-28A-C	0.0001		0.0004			0.0113	0.002	(<0.005)	(<0.01)		0.011		0.002	0.012		0.002	100 g		CRM
IARM-28K-C	(0.0004)	(<0.001)	(<0.001)	(<0.001)		0.008	0.0015	0.012	(0.002)	(<0.005)	0.008	(<0.008)	(0.0014)	(0.0023)	(<0.003)	(0.0016)	100 g		CRM
IARM-29E-C	0.0007	(<0.013)	0.0012			0.0093	0.0024	0.001	0.003	(0.0006)	0.0109	(0.0004)	0.0014	(<0.007)	(0.004)	(<0.004)	100 g	W	CRM
IARM-30D-C	0.0004		0.0006			0.0097	0.002	0.003			0.017	0.003	0.002	(0.004)			100 g		CRM

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ARMI - Chips / Powders

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Mg	As	B
IARM-30H-C	Carbon, Low Alloy Steel, AISI 4140 / G41400	0.425	0.253	0.937	0.015	0.022	0.97	0.063	0.199	0.131	0.0040	0.0071	0.020	(0.001)	0.0046	0.0007
IARM-30J-C	Carbon, Low Alloy Steel, AISI 4140 / G41400	0.405	0.256	0.884	0.01	0.036	0.972	0.187	0.205	0.173	0.0045	0.0098	0.023		0.005	
IARM-31G-C	Carbon, Low Alloy Steel, AISI 4340 / G43400	0.4	0.262	0.689	0.0136	0.013	0.82	1.814	0.223	0.183	0.0036	0.0083	0.0214		0.004	0.0004
IARM-33D-C	Low-Alloy Steel, AISI 4620 / UNS G46200, chips	0.209	0.207	0.593	0.009	0.023	0.139	1.78	0.229	0.072	0.0020	0.008	0.026		0.0035	0.0002
IARM-34C-C	Low-Alloy Steel, AISI 6150 / UNS G61500, chips	0.50	0.3	0.739	0.0090	0.0011	0.914	0.085	0.022	0.078	0.206	0.005	0.068		0.0024	0.0003
IARM-35A-C	Low-Alloy Steel, 1¼Cr ½Mo / UNS K11572, chips	0.12	0.61	0.52	0.005	0.006	1.23	0.088	0.49	0.078	0.020	0.008	0.028		0.003	0.0002
IARM-35L-C	Carbon, Low Alloy Steel, 1¼Cr ½Mo / UNS K11572	[0.119]	[0.679]	[0.54]	[0.007]	[0.0139]	[1.35]	[0.070]	[0.61]	[0.124]	[0.0037]	[0.0068]	[0.017]	(0.002)	[0.004]	(0.0004)
IARM-37C-C	Carbon, Low Alloy Steel, 5Cr ½Mo / K42544	0.096	0.31	0.408	0.014	0.004	4.34	0.148	0.5	0.121	0.017	0.015	0.01		0.009	
IARM-38A-C	Low-Alloy Steel, 9Cr-1Mo / UNS K90941, chips	0.13	0.38	0.41	0.008	0.018	8.67	0.24	0.96	0.15	0.020	0.029	0.009		0.023	0.0003
IARM-39B-C	Tool Steel, AISI A-2 / UNS T30102, chips	0.99	0.35	0.54	0.017	0.003	4.79	0.14	1.01	0.10	0.22	0.014	0.006			
IARM-39C-C	Tool Steel, AISI A-2 / T30102	0.99	0.28	0.45	0.019	0.007	4.99	0.144	0.97	0.077	0.21	0.013	0.017		(0.005)	0.001
IARM-40A-C	Tool Steel, AISI A-6 / UNS T30106, chips	0.68	0.25	2.15	0.024	0.010	1.04	0.14	1.05	0.092	0.007	0.011	0.009		0.007	0.0003
IARM-40B-C	Tool Steel, AISI A-6 / UNS T30106, chips	0.68	0.39	1.98	0.012	0.003	1.04	0.096	1.22	0.05	0.014	0.015	0.006			0.001
IARM-40C-C	Tool Steel, AISI A-6 / UNS T30106, chips	0.72	0.32	1.91	0.014	0.012	0.99	0.255	1.27	0.142	0.01	0.01	0.019		0.008	0.0009
IARM-41D-C	Carbon, Low Alloy Steel, AISI D-2 / T30402	1.519	0.256	0.256	0.021	0.012	11.5	0.114	0.74	0.047	0.77	0.02	0.014	(<0.001)	(0.01)	(0.0006)
IARM-42C-C	Tool Steel, AISI H-13 / UNS T20813, chips	0.382	0.85	0.40	0.022	0.0037	4.86	0.051	1.29	0.066	0.84	0.022	0.018		(0.01)	0.0011
IARM-43B-C	Tool Steel, AISI L-6 / UNS T12006, chips	0.711	0.251	0.56	0.008	0.013	0.651	1.39	0.206	0.180	0.0035	0.012	0.021		0.005	0.0002
IARM-44C-C	Tool Steel, AISI M-2 / UNS T11302, chips	0.82	0.39	0.301	0.027	0.004	4.04	0.132	5.02	0.12	1.91	0.247	0.05		(0.01)	(0.002)

Analyte - Measured Values (continued)

Code	Bi	Ca	Cd	N	Nb	Pb	Sb	Se	Sn	Ta	Ti	W	Zn	Zr	Size	Form	Type
IARM-30H-C	(0.002)	(0.0009)		0.0081	0.003	0.0005	0.0013	(<0.005)	0.008	(0.004)	0.0024	0.007	(0.002)	0.002	100 g		CRM
IARM-30J-C				0.01	0.0016				0.0109		0.0013	0.005			100 g		CRM
IARM-31G-C				0.0069	0.0023				0.0077		0.0015	0.004		0.0012	100 g		CRM
IARM-33D-C		(0.0003)		0.0053	0.002	(<0.001)	(0.002)		0.005		0.003	(<0.005)		(<0.002)	100 g		CRM
IARM-34C-C		(0.0004)		0.0030	0.004	(0.0003)	(0.001)		0.0058		0.0045	(0.003)		(0.001)	100 g	W	CRM
IARM-35A-C		0.0002		0.0081	0.003	(<0.005)			0.004		0.002			0.002	100 g		CRM
IARM-35L-C	(0.0009)	(<0.002)	(<0.001)	[0.007]	(0.003)	(<0.001)	(0.0025)	(<0.002)	[0.0088]	(<0.002)	[0.002]	(0.003)	(<0.003)	(<0.005)	100 g		CRM
IARM-37C-C				0.008	0.004				0.009		0.0025	0.012			100 g		CRM
IARM-38A-C		0.0005		0.0190	0.008		0.001		0.014		0.003	0.023		0.003	100 g		CRM
IARM-39B-C				0.0096	0.006				0.004		0.003	(0.026)			100 g	W	CRM
IARM-39C-C		(0.001)		0.011	0.004	(0.0001)	(0.002)		0.005		0.0029	0.011		(0.002)	100 g		CRM
IARM-40A-C				0.0077	0.004				0.006		0.003	0.013			100 g		CRM
IARM-40B-C				0.0107	0.005				0.004		0.003	0.013			100 g		CRM
IARM-40C-C		0.001		0.0083	0.003				0.008		0.008	0.009		0.002	100 g	W	CRM
IARM-41D-C	(<0.002)	(0.0008)		0.0152	0.004	(0.0008)	(<0.01)	(<0.002)	0.005	(<0.01)	0.003	0.034	(<0.002)	(0.002)	100 g		CRM
IARM-42C-C				0.0201	0.004	0.0007			0.0006		0.0125	0.32			100 g	W	CRM
IARM-43B-C		(0.002)		0.0093	0.004	<0.0005	<0.002		0.013		0.0047	<0.005		<0.001	100 g	W	CRM
IARM-44C-C				0.033	0.012	(0.002)	(0.004)		0.010	(0.004)	0.004	6.0	0.006	0.002	100 g	W	CRM

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ARMI - Chips / Powders

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Mg	As
IARM-45B-C	Tool Steel, AISI O-6 / UNS T31506, chips	1.42	0.92	0.9	0.01	0.008	0.061	0.024	0.24	0.018	0.003	0.004	0.01		0.002
IARM-47B-C	Tool Steel, AISI S-5 / UNS T41905, chips	0.59	1.96	0.79	0.017	0.006	0.23	0.090	0.20	0.17	0.17	0.007	0.014		
IARM-48C-C	Tool Steel, AISI T-1 / UNS T12001, chips	0.77	0.45	0.39	0.029	0.018	4.24	0.204	0.17	0.13	1.27	0.22	0.017	(0.002)	0.012
IARM-49E-C	Carbon, Low Alloy Steel, E52100 / G52986	1.03	0.248	0.364	0.006	0.002	1.43	0.043	0.017	0.076	0.066	0.006	0.024		0.0029
IARM-98B-C	Stainless Steel, Kovar / UNS K94610, chips	0.007	0.17	0.18	0.002	0.0007	0.012	29.4	0.0410	0.028	(0.003)	17.0	0.07	0.0040	<0.02
IARM-99C-C	Stainless & High Temperature Steel, Alloy C-300 / K93120	0.0038	0.02	0.036	0.004	0.0004	0.079	18.49	4.85	0.088	0.008	9.3	0.091	(0.001)	(<0.01)
IARM-143F-C	Low-Alloy Steel, AISI 4130 / UNS G41300, chips	0.308	0.23	0.573	0.011	0.0177	0.865	0.088	0.163	0.221	0.0046	0.01	0.026	(<0.005)	0.0051
IARM-152C-C	Stainless Steel, 17-7PH / UNS S17700, chips	0.072	0.263	0.74	0.024	0.0006	16.99	7.3	0.36	0.316	0.072	0.113	0.94		(0.004)
IARM-153C-C	Stainless Steel, AISI 317L / UNS S31703, chips	0.0225	0.349	1.6	0.0289	0.0288	18.22	11.1	3	0.442	0.058	0.251	0.003		0.0061
IARM-154C-C	Stainless Steel, AISI 420 / UNS S42000, chips	0.339	0.37	0.423	0.0174	0.0043	12.41	0.215	0.036	0.12	0.043	0.016	0.0034	(<0.001)	(0.004)
IARM-155F-C	Carbon, Low Alloy Steel, AISI 4820 / G48200, chips	0.199	0.223	0.617	0.008	0.013	0.144	3.36	0.244	0.219	0.0015	0.012	0.0356	(<0.001)	0.0006
IARM-162D-C	Stainless Steel, AISI 304L / UNS S30403, chips	0.024	0.57	1.82	0.0296	0.0271	18.31	8.15	0.573	0.52	0.063	0.074	0.0026	(0.0001)	0.0072
IARM-164A-C	SCLA, CLA1, chips	0.004	0.019	1.57	0.004	0.070	0.032	1.29	0.009	0.88	0.78	0.006	0.72		(0.0002)
IARM-166A-C	SCLA, CLA3, chips	0.003	0.91	1.29	0.005	0.073	0.014	0.77	1.08	0.64	0.40	0.004	0.55		(0.004)
IARM-168A-C	SCLA, CLA5, chips	0.003	0.46	0.12	0.030	0.064	0.004	2.32	0.69	0.009	0.004	0.003	0.19		(0.003)
IARM-172A-C	SCLA, CLA9, chips	0.78	1.29	0.010	0.007	0.004	3.52	0.025	0.014	0.40	0.003	0.006	0.39		(0.005)
IARM-180A-C	SCLA, CLA11,chips	0.007	0.023	0.41	0.004	0.046	0.037	1.29	0.006	0.89	0.76	0.004	0.76		(0.004)
IARM-183C-C	Low-Alloy Steel, 12L14 / UNS G12144, chips	0.079	0.004	1.06	0.078	0.31	0.055	0.019	0.010	0.016	0.002	(0.002)	0.0021		0.003
IARM-199C-C	Low-Alloy Steel, AISI 1144 / UNS G11440, chips	0.469	0.21	1.55	0.0155	0.281	0.19	0.085	0.0293	0.193	0.0037	0.007	0.0019	(0.0002)	0.0059

Analyte - Measured Values (continued)

Code	B	Bi	Ca	Cd	Fe	N	Nb	Pb	Sb	Se	Sn	Ta	Ti	W	Zn	Zr	Size	Form	Type
IARM-45B-C	0.0001		0.001			0.008	0.002		0.001		0.008		0.002	0.004		0.001	100 g	W	CRM
IARM-47B-C	(<0.001)					0.0092	(0.002)	(0.0003)			0.008		0.010	(0.016)			100 g	W	CRM
IARM-48C-C	(0.001)					0.0165	0.005	(0.0004)	(0.002)		0.012	(0.01)	0.006	17.5		(0.003)	100 g	W	CRM
IARM-49E-C						0.003	0.003				0.0065		0.006				100 g		final
IARM-98B-C	0.001		<0.0005		52.9	0.0024	0.002	<0.0005			0.002	<0.05	0.03	(0.02)	<0.0005	<0.01	100 g		CRM
IARM-99C-C	0.0023		(<0.01)			0.0013	0.004			(0.001)	0.002	(<0.02)	0.738	0.012	(<0.01)	0.006	100 g		prov.
IARM-143F-C	(<0.003)	(<0.02)	(<0.01)			0.0098	0.0015	(<0.003)	(<0.009)	(<0.005)	0.01	(<0.008)	0.0012	0.003	(<0.005)		100 g		CRM
IARM-152C-C	0.0029					0.0172	0.012				0.007	(0.005)	0.098	0.026			100 g		CRM
IARM-153C-C	0.0009		(0.0026)			0.086	0.015	(0.001)	(0.002)	(<0.04)	0.01	(0.006)	0.004	0.043	(<0.001)	0.004	100 g		CRM
IARM-154C-C	0.0007		(<0.001)			0.054	0.014	(<0.01)	(0.001)	(0.0003)	0.0058	(<0.005)	0.0015	0.005	(<0.005)	(0.0014)	100 g	W	CRM
IARM-155F-C	(0.0004)		(<0.002)	(<0.001)		0.005	0.0016	(<0.006)	(<0.003)		0.0084	(<0.005)	0.002	0.004	(<0.001)		100 g		CRM
IARM-162D-C	0.0027		(0.003)			0.097	0.009	(<0.003)	(0.0019)	(<0.03)	0.0102	0.005	0.013	0.028	(<0.007)	(<0.007)	100 g		CRM
IARM-164A-C	(0.0001)					0.0003	0.006	(0.004)			0.002		0.002	1.44			100 g	W	CRM
IARM-166A-C	(0.0002)		(0.0003)			0.0002	0.006	(<0.01)			(0.003)		0.002	1.02		(<0.01)	100 g	W	CRM
IARM-168A-C	0.0004					0.0002	0.003	(<0.01)			0.003		0.004	0.52			100 g	W	CRM
IARM-172A-C	0.0003		(0.0001)			0.0004	0.004	(<0.01)			0.003		0.003	0.038		(<0.005)	100 g	W	CRM
IARM-180A-C	0.0004					0.0096	(0.005)	(0.002)			0.002		0.002	1.48			100 g	W	CRM
IARM-183C-C	0.0011					0.0049	0.0010	0.18	(0.001)		0.003		0.0009	(0.002)		0.001	100 g	W	CRM
IARM-199C-C	0.0012		(0.0011)			0.007	0.0016	0.001	(0.003)	(<0.006)	0.0084	(0.0007)	0.0016	0.0023	(0.0006)	(<0.0040)	100 g		CRM

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ARMI - Chips / Powders

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Ce	Mg
IARM-200D-C	Carbon Steel, AISI 1045 / UNS G10450, chips	0.453	0.225	0.749	0.0103	0.024	0.109	0.097	0.0217	0.232	0.0244	0.007	0.004		(<0.001)
IARM-205D-C	Stainless Steel, AISI 422 / UNS S42200, chips	0.232	0.257	0.736	0.0209	0.0028	12.18	0.841	1.002	0.122	0.319	0.043	0.0021	(<0.0010)	(0.0007)
IARM-206B-C	Carbon Steel, AISI 1215 / UNS G12150, chips	0.074	0.012	1.01	0.050	0.293	0.038	0.053	0.018	0.113	0.0016	0.007	0.0025		
IARM-209D-C	Carbon Steel, AISI 1030 / UNS G10300, chips	0.32	0.27	0.67	0.009	0.021	0.14	0.079	0.036	0.243	0.042	0.006	0.003		
IARM-210A-C	Carbon Steel, AISI 1040 / UNS G10400, chips	0.39	0.22	0.82	0.015	0.023	0.11	0.11	0.022	0.27	0.052	0.008	0.003		
IARM-210D-C	Carbon Steel, AISI 1040 / UNS G10400, chips	0.41	0.23	0.73	0.005	0.031	0.1	0.122	0.033	0.27	0.024	(0.006)	(0.003)		
IARM-213C-C	Carbon Steel, A36 / UNS K02600, chips	(0.2)	(0.25)	(0.92)	(0.007)	(0.026)	(0.098)	(0.068)	(0.022)	(0.149)	(0.035)	(0.007)	(0.002)		(<0.001)
IARM-213D-C	Carbon Steel, A36 / UNS K02600, chips	0.158	0.226	0.725	0.012	0.031	0.093	0.076	0.0131	0.207	0.001	0.009	0.003		
IARM-214A-C	Stainless Steel, NMS-100, chips	0.018	1	18.3	0.033	0.002	12.36	2.33	0.44	0.36	0.04	0.021	(0.002)		
IARM-229B-C	Low-Alloy Steel, C Â½Mo / UNS K12822, chips	0.22	0.329	0.858	0.0073	0.0106	0.017	0.03	0.495	0.0153	0.0059	0.0116	0.025		(<0.001)
IARM-234C-C	Stainless Steel, AISI 302HQ / UNS S30430, chips	0.092	0.88	1.93	0.009	0.0027	18.15	9	0.012	3.41	0.055	0.034	0.035		(0.002)
IARM-239B-C	Stainless Steel, Alloy 255 / UNS S32550, chips	0.013	0.39	0.86	0.024	0.0007	25.9	5.76	3.42	1.48	0.1	0.047	0.009		
IARM-239C-C	Stainless & High Temperature Steel, Alloy 255 / S32550	0.017	0.38	0.87	0.023	0.001	25.8	6.14	3.33	1.49	0.083	0.039	0.007	(<0.005)	(<0.03)
IARM-241D-C	Stainless Steel, AISI 302 / UNS S30200, chips	0.125	0.99	1.94	0.003	0.0021	18.12	9	(0.003)	0.24	0.031	0.022	0.022		
IARM-242A-C	Stainless Steel, Aermet 100 / UNS K92580, chips	0.24	0.02	0.018	0.002	0.0004	3.00	11.1	1.21	0.007	0.01	13.5	0.004		
IARM-251A-C	Tool Steel, AISI M-4 / UNS T1130, chips	1.398	0.58	0.33	0.014	0.058	4.1	0.131	5.16	0.13	3.9	0.129	0.01		
IARM-252D-C	Carbon, Low Alloy Steel, AISI 8740 / G87400, chips	0.423	0.256	0.842	0.0075	0.0128	0.468	0.424	0.204	0.27	0.0022	0.0078	0.024		(0.0002)
IARM-253A-C	Stainless Steel, AISI 303Se / UNS S30323 chips	0.041	0.5	1.50	0.140	0.0089	17.90	9.17	0.348	0.223	0.106	0.088	0.003		

Analyte - Measured Values (continued)

Code	As	B	Bi	Ca	N	Nb	Pb	Sb	Se	Sn	Ta	Ti	W	Zn	Zr	Size	Form	Type
IARM-200D-C	0.005	(0.0002)		(0.001)	0.009	0.001	(<0.002)	(0.0019)		0.0079	(<0.005)	0.00013	0.003	(0.002)		100 g		CRM
IARM-205D-C	0.004	0.0007		(0.002)	0.0484	0.013	0.002	(<0.0070)	(<0.0050)	0.0047	(<0.0050)	0.0022	1.07	(<0.0050)	0.0022	100 g		CRM
IARM-206B-C	0.0045	0.0006			0.0075	0.002	(0.001)	(0.002)		0.0064		0.0008	(0.003)		0.002	100 g	W	CRM
IARM-209D-C	0.006	0.0002		0.002	0.0107	0.001	0.001	0.003		0.011		0.0010	0.001			100 g		CRM
IARM-210A-C	0.007	(<0.005)			0.0124	(0.002)				0.011		(0.002)				100 g		CRM
IARM-210D-C	0.006	0.0004		(0.001)	0.0113		(0.001)	(0.002)		0.01		0.01	(0.002)			100 g	W	CRM
IARM-213C-C	(0.0059)	(0.003)	(<0.0005)	(0.0014)	(0.012)	(0.001)	(0.0011)	(0.002)		(0.008)		(0.0011)	(0.001)	(<0.007)	(0.001)	100 g	W	CRM
IARM-213D-C	(0.006)	(0.0004)		(0.0015)	0.008	0.0012	(<0.001)	(0.0032)		0.0147	(<0.005)	0.0011	0.003	(0.002)		100 g		CRM
IARM-214A-C		(0.001)			0.27	0.23				0.008		0.002	0.02			100 g		CRM
IARM-229B-C	0.002	0.0006	(<0.0005)	(0.0003)	0.0072	0.0019	(0.0005)	(0.0006)	(<0.0012)	0.0012	(0.003)	0.0019	0.003	(<0.003)	0.0008	100 g	W	CRM
IARM-234C-C	(0.001)	0.0023		(0.0017)	0.01	0.053	(0.001)	(0.004)	(0.003)	0.0017	0.003	0.026	0.006	(0.001)	0.006	100 g		CRM
IARM-239B-C	0.003	0.001			0.25	0.024	0.001			0.003	0.004	0.002	0.1		0.002	100 g	W	CRM
IARM-239C-C	(0.004)	0.0014		(<0.004)	0.228	0.006	(0.004)	(0.0004)	(<0.03)	0.003	(0.004)	0.004	0.05	(<0.03)	(0.003)	100 g		prov.
IARM-241D-C	(0.001)	0.0016		(0.001)	0.006	0.03	(0.0004)		(0.002)	0.002	(0.004)	0.018	0.012		0.005	100 g		CRM
IARM-242A-C		(0.0005)			0.0003	0.004				(0.001)	0.008	0.009	<0.01			100 g	W	CRM
IARM-251A-C	0.016	(0.002)		(0.0005)	0.044	0.016	(0.002)			0.011		0.003	5.5		(0.002)	100 g	W	CRM
IARM-252D-C	0.0053	0.0002	(0.0005)	(0.001)	0.0068	0.0013	0.0004	0.0024	(<0.003)	0.012	(<0.005)	0.0012	0.004	0.0005	0.0013	100 g		CRM
IARM-253A-C		0.0003			0.0373	0.016			0.21	0.01		0.002	0.10			100 g		CRM

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ARMI - Chips / Powders

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Ce	Mg
IARM-253B-C	Stainless & High Temperature Steel, AISI 303Se / S30323	0.051	0.46	1.61	0.13	0.011	17.64	9.11	0.59	0.44	0.092	0.145	0.004	(<0.001)	(0.0006)
IARM-255A-C	Tool Steel, AISI H-11 / UNS T20811, chips	0.403	0.93	0.27	0.013	0.012	4.84	0.083	1.33	0.049	0.43	0.009	0.01		
IARM-259A-C	Tool Steel, AISI S-7 / UNS T41907, chips	0.479	0.44	0.399	0.020	0.0007	3.27	0.194	1.43	0.081	0.256	0.011	0.016		
IARM-281A-C	Tool Steel, AISI T-4 / UNS T12004, chips	0.74	0.29	0.3	0.015	0.019	3.89	0.15	0.49	0.096	0.9	4.8	0.007		0.003
IARM-289A-C	Stainless Steel, AISI 301 / UNS S30100, chips	0.126	0.58	1.67	0.006	0.0019	17.0	7.12	0.005	0.016	0.01	0.054	0.01		
IARM-289B-C	Stainless & High Temperature Steel, AISI 301 / S30100	0.161	0.99	1.92	0.004	0.0025	17.09	7.02	0.008	0.241	0.018	0.013	0.007	(<0.001)	(<0.001)
IARM-291A-C	Stainless Steel, M-152 / UNS S64152, chips	0.11	0.23	0.71	0.016	0.009	11.3	2.62	1.61	0.060	0.29	0.021	(0.004)		
IARM-292A-C	Stainless Steel, LDX 2101 / UNS S32101, chips	0.030	0.75	5.0	0.018	0.001	21.35	1.47	0.097	0.29	0.084	0.031	0.010		
IARM-294A-C	Stainless Steel, NMS J38, chips	0.017	0.43	21.6	0.026	0.0028	19.7	2.9	1.8	0.34	0.046	0.021	(0.01)		
IARM-295A-C	Stainless Steel, NMS 140, chips	0.021	0.36	19.7	0.028	0.0041	18.0	1.84	0.97	0.113	0.046	0.021	(0.01)		
IARM-296A-C	Stainless Steel, NMS MDC, chips	0.074	0.38	10.6	0.027	0.002	11.2	1.71	0.6	0.12	0.056	0.018	0.005		
IARM-299A-C	Low-Alloy Steel, D6-AC / UNS K22925, chips	0.469	0.22	0.70	0.008	0.002	1.03	0.57	0.99	0.100	0.120	0.0054	0.092		
IARM-301B-C	Stainless Steel, Alloy 2507 / UNS S32750, chips	0.0206	0.419	0.807	0.251	0.001	25.06	7.01	3.75	0.192	0.07	0.055	0.005		(0.0003)
IARM-302B-C	Stainless steel, Alloy 254SMO / UNS S31254, chips	0.0226	0.56	0.93	0.0256	0.0007	20.33	17.7	6.24	0.701	0.052	0.072	0.0159		0.0009
IARM-304A-C	Tool Steel, AISI M-1 / UNS T11301, chips	(0.002)	0.36	0.260	0.019	0.0016	3.55	0.133	8.04	0.14	1.23	0.278	0.009		
IARM-306B-C	Tool Steel, AISI M-50 / UNS T11350, chips	0.837	0.213	0.24	0.0061	0.0011	4.12	0.095	4.23	0.058	0.98	0.01	0.082		(<0.002)
IARM-307A-C	Carbon, Low Alloy Steel, AISI 1118 / G11180	0.163	0.281	1.44	0.0113	0.096	0.104	0.197	0.045	0.190	0.0028	0.010	0.032		(<0.006)
IARM-308A-C	Stainless Steel, Alloy C-250 / UNS K92890, chips	0.003	0.014	0.019	0.004	0.0005	0.023	18.53	4.78	0.018	0.01	7.80	0.097		

Analyte - Measured Values (continued)

Code	As	B	Bi	Ca	Cd	N	Nb	Pb	Sb	Se	Sn	Ta	Ti	W	Zn	Zr	Size	Form	Type
IARM-253B-C	0.0052	0.0007		(0.0006)		0.031	0.021	(0.0002)	(0.0018)	0.13	0.012	(0.003)	0.0027	0.05	(<0.002)	(<0.008)	100 g		CRM
IARM-255A-C	(0.002)	0.0004		(0.0004)		0.0067	0.004	<0.001			0.006		0.002	0.007		<0.005	100 g	W	CRM
IARM-259A-C	0.006	0.0003				0.0077	0.003	<0.0005			0.004		0.0026	0.035		0.001	100 g	W	CRM
IARM-281A-C	0.02	0.003				0.0064	0.094				0.02		0.004	17.6		0.002	100 g		CRM
IARM-289A-C		0.0003				0.0032	0.008				0.002	<0.005	0.028	0.01			100 g	W	CRM
IARM-289B-C	(<0.004)	0.0008		(0.001)		0.011	0.013	(0.005)	(<0.001)	(<0.006)	0.002	(0.003)	0.005	0.012	(<0.03)	0.007	100 g		CRM
IARM-291A-C		0.001				0.035	0.022				0.004	(0.001)	0.0011	(0.01)		<0.005	100 g	W	CRM
IARM-292A-C		0.0011				0.245	0.009				0.004	(0.006)	0.005	0.01			100 g	W	CRM
IARM-294A-C		(0.003)				0.78	0.03				(0.006)	(0.003)	(0.002)	0.01		(0.002)	100 g		CRM
IARM-295A-C		0.002				0.62	0.018				0.004		0.0019	0.016		(0.001)	100 g		CRM
IARM-296A-C		0.001				0.23	0.043				0.007		0.002	0.01			100 g		CRM
IARM-299A-C	0.003	0.0003		(0.001)		0.0028	0.006	(0.001)	(0.002)		0.0055		0.0038	0.010		(0.001)	100 g	W	CRM
IARM-301B-C	(0.004)	0.0024		(0.0009)		0.297	0.02	(0.0003)	(0.0006)	(0.00008)	0.0051	0.003	0.003	0.05	(0.0004)	0.0008	100 g		CRM
IARM-302B-C	(0.009)	0.0027		(0.0031)		0.18	0.012	(0.001)	(0.0018)	(0.0006)	0.0075	0.004	0.0031	0.025	(<0.01)	(<0.01)	100 g	W	CRM
IARM-304A-C	(0.01)	0.002				0.034	0.021		(0.001)		0.006		0.002	1.65		(0.002)	100 g	W	CRM
IARM-306B-C	0.004	0.0007	(<0.0001)	(0.001)		0.005	0.005	(0.0008)	(0.002)	(<0.002)	0.0042	(<0.011)	0.0016	0.009	(<0.055)	0.0014	100 g		CRM
IARM-307A-C	0.008	(<0.005)	(<0.02)	(<0.0005)	(<0.001)	0.0108	(0.002)	0.002	(<0.004)	(<0.006)	0.0090	(<0.005)	0.0015	(0.005)	(<0.002)	(0.002)	100 g		CRM
IARM-308A-C		(0.0029)				0.0013	0.003				0.001	<0.01	0.46	0.01		0.01	100 g	W	CRM

Values listed in mass %: ( ) Uncertified Value,

C=Cast, CC=Chill Cast, CCC=Continuous Chill Cast, CW=Concast/Wrought, W=Wrought, SC=Single Cast, HIP=Hot Isostatically-pressed Powder

ARMI - Chips / Powders

		Analyte - Measured Values														
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Ce	Mg	As
IARM-309A-C	Stainless Steel, Alloy C-350 / UNS K93540, chips	0.0059	0.02	0.018	0.004	0.0006	0.053	18.4	4.71	0.023	0.01	12.3	0.11			
IARM-316A-C	Stainless Steel, Alloy 253 MA / UNS S30815, chips	0.070	1.5	0.61	0.023	0.0011	21.07	10.81	0.250	0.19	0.042	0.118	0.006	0.064		0.007
IARM-317A-C	Stainless Steel, Alloy 2304 / UNS S32304, chips	0.025	0.9	1.26	0.028	0.0007	22.5	4.19	0.249	0.21	0.061	0.064	0.005			(0.006)
IARM-318B-C	Stainless Steel, Alloy 16-6-1.5-1.5, chips	0.05	0.41	1.02	0.022	0.0006	15.9	5.71	1.57	1.63	0.115	0.1	0.004			(0.004)
IARM-319A-C	Stainless Steel, Zeron 100 / UNS S32760, chips	0.015	0.0084	0.53	0.024	0.0006	25.2	6.92	3.56	0.51	0.076	0.051	0.010			(0.004)
IARM-320A-C	Tool Steel, AISI M-35 / UNS T11335, chips	0.093	0.36	0.33	0.021	0.0015	4.22	0.204	4.79	0.091	1.76	4.9	0.023		(<0.003)	0.013
IARM-324A-C	Low-Alloy Steel, Grade M10, chips	0.99	0.163	1.01	0.009	0.028	0.42	0.081	0.022	0.22	0.0017	0.007	0.002			0.006
IARM-327A-C	Stainless Steel, Alloy 415 / UNS S41500, chips	0.018	0.43	0.54	0.018	0.001	12.73	3.83	0.53	0.082	0.036	0.019	0.003		(0.0003)	(0.004)
IARM-330B-C	Carbon, Low Alloy Steel, AISI 4330 / K23080	0.302	0.277	0.82	0.0075	0.003	0.807	1.856	0.406	0.084	0.076	0.013	0.023			
IARM-335A-C	Stainless Steel, Alloy AM 355 / UNS S35500, chips	0.138	0.39	0.85	0.016	0.0005	15.30	4.27	2.72	0.086	0.094	0.063	0.019			(0.01)
IARM-339A-C	Stainless Steel, AISI 316H / UNS S31609, chips	0.16	0.64	1.71	0.004	0.009	17.0	12.9	2.79	0.021	0.007	0.007	0.004		(0.0001)	(0.001)
IARM-340A-C	Low-Alloy Steel, AISI 300M / UNS K44220, chips	0.414	1.63	0.755	0.011	0.001	0.84	1.8	0.39	0.103	0.064	0.006	0.062		(0.0002)	0.004
IARM-341A-C	Low-Alloy Steel, HP9-4-30 / UNS K91283, chips	0.298	0.1	0.226	0.0038	0.0008	0.99	7.16	1.01	0.143	0.086	4.44	0.032			0.003

	Analyte - Measured Values (continued)																	
Code	B	Bi	Ca	Cd	N	Nb	Pb	Sb	Se	Sn	Ta	Ti	W	Zn	Zr	Size	Form	Type
IARM-309A-C	0.0032				0.0010	0.004				(0.001)	(0.006)	1.47	0.01		0.008	100 g	W	CRM
IARM-316A-C	(0.0003)		0.0017		0.1605	0.003	(0.0001)			0.006	0.003	0.002	0.022	(0.0008)		100 g	W	CRM
IARM-317A-C	0.0019		(0.0003)		0.123	0.004	(0.001)			0.008	(0.004)	(0.002)	0.015			100 g	W	CRM
IARM-318B-C	0.0003				0.032	0.086				0.004	(0.004)	0.014	0.087		(0.003)	100 g		CRM
IARM-319A-C	0.0020				0.240	0.006				0.0055	(0.002)	0.003	0.52			100 g	W	CRM
IARM-320A-C	0.0011	(<0.0001)	(<0.003)		0.014	0.015	(<0.007)	(<0.0011)	(<0.0001)	0.008	(<0.002)	0.0032	6.01	(<0.001)	(0.003)	100 g		CRM
IARM-324A-C	0.0004		0.0009		0.0082	0.014		(0.002)		0.011		0.0016	(0.003)		(0.001)	100 g	W	CRM
IARM-327A-C	0.001				0.0157	0.008				0.006	(0.004)	0.0026	0.009		(0.002)	100 g	W	CRM
IARM-330B-C						0.002				0.0047			0.024			100 g		CRM
IARM-335A-C	0.0007		(0.001)		0.085	0.015				0.0034	(0.01)	(0.002)	0.008		(0.002)	100 g	W	CRM
IARM-339A-C	0.0006		0.0014		0.0060	0.005	(0.002)			0.002	(0.005)	0.002	0.0119	(0.001)	0.003	100 g	W	CRM
IARM-340A-C	0.0004		(0.0004)		0.002	0.015	(0.001)	0.0021		0.005		0.0098	0.005	(0.0001)	(0.002)	100 g	W	CRM
IARM-341A-C	0.0005		0.0011		0.0025	0.005	(0.001)	(0.001)		0.005		0.003	(0.01)	(0.0002)	(0.003)	100 g	W	CRM

MBH - Chips / Powders

Most MBH products are also available as chips - please ask for details.

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For more information and to order these products, visit lgcstandards.com

ECRM - Chips / Powders

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	As	N
ECRM-F 012-1	Unalloyed steel - chips	0.082			0.082	0.254									
ECRM-F 013-1	Unalloyed steel - chips				0.052	0.032									
ECRM-F 017-1	Unalloyed steel - chips	0.261	0.266	0.725	0.015	0.022	0.044	0.085		0.062					0.0091
ECRM-F 021-1	Unalloyed steel - chips	0.243	0.271	1.29	0.0121		0.125	0.255		0.167					
ECRM-F 022-1	Unalloyed steel - chips	0.114		0.797	0.057	0.296									
ECRM-F 023-1	Unalloyed steel with 0.3% lead - chips	0.331	0.264	0.667	0.021	0.0156									
ECRM-F 024-1	Unalloyed steel with 0.3% lead - chips	0.104	0.139	0.726	0.0155	0.235									
ECRM-D 030-4	Steel type 60-2 - chips	0.456	0.318	0.603	0.018	0.021	0.117	0.042		0.061			0.042	0.012	0.0051
ECRM-D 031-3	Unalloyed steel - chips	0.055	0.037	0.329	0.014	0.021				0.02			0.054	0.013	0.005
ECRM-D 032-2	Steel with 0.27% carbon - 0.56% manganese steel - chips	0.271	0.282	0.556	0.0129	0.0254	(0.088)	(0.04)		0.085				0.02	0.0044
ECRM-D 035-2	1.3% Carbon steel - powder	1.277	0.216	0.305	0.0038	0.011	0.0104	0.019	0.0056	0.0085			0.0193	0.0017	0.023
ECRM-D 036-1	Tool steel C85 W2, no. 1.1630 - chips	0.858	0.194	0.327	0.0074	0.0095	(0.091)	(0.058)		0.065	(0.019)		(0.015)	0.0233	0.01
ECRM-D 039-2	Free cutting steel with 0.2% lead- chips	0.107	0.011	1.274	0.083	0.31	0.048	0.051		0.117					0.0113
ECRM-D 042-1	0.05% Niobium steel- chips	0.108	0.037	0.666	0.007	0.024	0.016	0.029		0.041			0.01		0.0078
ECRM-B 051-1	0.1% Sulfur steel - chips (BCS-CRM 232/2)	0.181	(0.11)	1.18	0.025	0.126	0.05	0.14		0.15					
ECRM-B 054-1	0.09% Phosphorus steel - chips (BCS-CRM 270)	0.22	(0.05)	0.88	0.092	0.1	0.17	0.14	0.02	0.21	<0.01			0.03	
ECRM-B 055-2	0.5% carbon steel, chips	0.5199	0.3094	0.687	0.0102	0.0205	0.3217	0.3121	0.096	0.2089	0.00245	0.0257		0.0187	0.01069
ECRM-B 056-2	0.8% Carbon steel - chips	0.8181	0.2006	0.5073	0.0103	0.0093	0.0146	0.0218		0.0129			0.00024		
ECRM-B 057-2	0.05% Carbon steel (BS/DIN EN 10130) - chips	0.0507	(0.003)	0.246	0.0120	0.0127	0.0114	0.0096		0.0146			0.059		0.00230
ECRM-B 058-2	0.15% Sulfur steel (BS 1429) - chips	0.424	0.1080	1.186	0.0098	0.1712	0.1211	0.199	0.0589	0.261				0.0095	0.0107

Analyte - Measured Values (continued)

Code	Nb	Pb	Sb	Sn	Ti	W		Size	Type
ECRM-F 012-1								100 g	CRM
ECRM-F 013-1								100 g	CRM
ECRM-F 017-1								100 g	CRM
ECRM-F 021-1								100 g	CRM
ECRM-F 022-1								100 g	CRM
ECRM-F 023-1		0.280						100 g	CRM
ECRM-F 024-1		0.287						100 g	CRM
ECRM-D 030-4				0.0055				100 g	CRM
ECRM-D 031-3								100 g	CRM
ECRM-D 032-2				(0.006)				100 g	CRM
ECRM-D 035-2					0.003			100 g	CRM
ECRM-D 036-1								100 g	CRM
ECRM-D 039-2		0.207						100 g	CRM
ECRM-D 042-1	0.054							100 g	CRM
ECRM-B 051-1								100 g	CRM
ECRM-B 054-1								100 g	CRM
ECRM-B 055-2			0.00376	0.0162	0.00104	0.0166		100 g	CRM
ECRM-B 056-2								100 g	CRM
ECRM-B 057-2								100 g	CRM
ECRM-B 058-2								100 g	CRM

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ECRM - Chips / Powders

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	As	B
ECRM-B 059-2	0.7% Carbon steel (BS EN 10277) - chips	0.721	0.188	0.495	0.0046	0.0084	0.0090	0.0198	0.0018	0.0074			0.00045		
ECRM-B 060-1	0.1% Carbon steel - chips (BCS-CRM 237/2)	0.122	(0.17)	0.45	0.024	0.031	0.028	0.039	<0.005	0.06			0.004		
ECRM-B 061-1	0.2% Carbon steel - chips (BCS-CRM 238/2)	0.21	0.12	0.61	0.019	0.034		0.21		0.1					
ECRM-B 064-1	Nb/Ti Interstitial free steel (EN 10130 and EN 10142) - chips	0.0026	0.0065	0.1641	0.0091	0.0104	0.0184	0.0115	0.00077	0.0077		0.0027	0.0330	0.0036	
ECRM-D 077-3	non alloyed Steel	0.165				0.0162									
ECRM-D 079-2	Free cutting steel - chips	0.596	0.247	0.743	0.0233	0.192	0.0379	0.022		0.046			0.021	0.004	
ECRM-F 081-1	Unalloyed steel - chips	0.099	0.105	0.605	0.014	0.014		0.042		0.026		0.017	0.023		
ECRM-D 082-1	Free cutting steel - chips	0.415	0.235	0.769	0.013	0.03	0.018	0.027		0.025					
ECRM-D 083-1	Unalloyed steel - chips	0.028		0.289	0.0077	0.01		0.014		0.016					
ECRM-B 084-1	Unalloyed steel - chips	0.391	0.265	0.860	0.018	0.029		0.154	0.033	0.267					
ECRM-B 085-1	Unalloyed steel - chips	0.067	0.008	0.977	0.062	0.336				0.291	0.0021	0.019			
ECRM-B 086-1	Unalloyed steel - chips	0.297	0.206	0.879	0.0238	0.0371	0.150	0.168		0.320				0.0230	
ECRM-B 087-1	Unalloyed steel - chips	0.174	0.263	0.671	0.01	0.046	0.078	0.118	0.021	0.171		0.015		0.024	
ECRM-B 088-2	Pure iron - powder	0.0006	0.0052	0.0809	0.0048	0.0070	0.0244	0.0275	0.0025	0.0163	0.00029	0.0061	0.0005		
ECRM-B 090-1	1% Carbon steel - chips	1.05	0.281	0.226	0.013	0.0095	0.121	0.053	0.009		0.204				
ECRM-B 091-1	0.5% Carbon steel - chips	0.518					0.312	0.310	0.098						
ECRM-B 096-2	Low sulfur low calcium steel (BS EN 10025) - chips	0.1050	0.262	1.320	0.0128	0.0016	0.0243	0.0253	0.0020	0.0170			0.0460		
ECRM-B 097-1	Pure iron - chips	(<0.002)	(<0.01)	0.0064	0.0016	0.0022	0.0016	0.0025	(<0.001)	0.002	(<0.001)	0.0037		0.0051	0.0003
ECRM-B 097-2	High purity iron, chips		0.00285	0.012	0.00538	0.00181	0.0213	0.0241	0.0037	0.00793	0.00011	0.0139		0.00281	0.00012

Analyte - Measured Values (continued)

Code	Bi	Ca	Cd	Ga	Hg	N	Nb	Pb	Sb	Se	Sn	Ta	Te	Ti	W	Zn	Size	Type
ECRM-B 059-2						0.0051											100 g	CRM
ECRM-B 060-1						0.004					0.005						100 g	CRM
ECRM-B 061-1																	100 g	CRM
ECRM-B 064-1											0.023						100 g	CRM
ECRM-D 077-3						0.0086											100 g	CRM
ECRM-D 079-2						0.0074					0.0037						100 g	CRM
ECRM-F 081-1																	100 g	CRM
ECRM-D 082-1								0.149									100 g	CRM
ECRM-D 083-1						0.00189											100 g	CRM
ECRM-B 084-1											0.023						100 g	CRM
ECRM-B 085-1								0.0010	0.0073							0.0025	100 g	CRM
ECRM-B 086-1											0.0263						100 g	CRM
ECRM-B 087-1									0.0046		0.017						100 g	CRM
ECRM-B 088-2		0.00072				0.001											100 g	CRM
ECRM-B 090-1	<0.00002		<0.00002	0.00228		0.0146	0.00043	0.00239	0.0009				<0.00020			0.00209	100 g	CRM
ECRM-B 091-1	<0.00002		<0.00002	0.00228	<0.00001	0.0111				<0.0002			<0.0002	<0.0001			100 g	CRM
ECRM-B 096-2		0.0020					0.0252										100 g	CRM
ECRM-B 097-1						0.0007					(<0.0025)						100 g	CRM
ECRM-B 097-2						0.00294			0.00012		0.00043	0.00015			0.00386	0.00014	100 g	CRM

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ECRM - Chips / Powders

Code	Description	Analyte - Measured Values C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	As	B
ECRM-F 102-1	Low alloyed steel - chips	0.389	0.281	0.367	0.012	0.006	0.26	4.4	1.2	0.168					
ECRM-F 106-2	Low alloyed steel - chips	0.153	0.238	0.727			1.03	1.43	0.054	0.078				0.057	
ECRM-F 107-1	Low alloyed steel - chips	0.407	0.286	0.611			1.443	0.191	0.323	0.108			0.345		
ECRM-F 108-1	Low alloyed steel - chips	0,384	0,34	0,69	0,0176	0,017	2,92	0,215	0,538	0,118					
ECRM-F 112-1	Low alloyed steel - chips	0.348	1.0	0.191			4.78	0.234	1.21	0.115	0.604				
ECRM-F 113-1	Low alloyed steel - chips	0.68	0.249	0.586	(0.0013)	(0.006)	0.816	1.744	0.413	0.146					
ECRM-F 114-1	Low alloyed steel - chips	0.044	4.00	0.0655	0.03	0.0037									
ECRM-D 126-1	Tool steel 90MnCrV8, No. 1.2842 - chips	0.841		1.817	0.0092	0.005	0.317				0.143				
ECRM-D 128-1	Structural steel with 0,9% Ti, No. 1.5310 - chips/powder	0.085	0.949	0.839	0.007	0.007	0.108	0.046		0.055	(0.008)				
ECRM-D 129-3	Nitrided steel 34CrAlNi7 (1.8550) - chips	0.3684	0.2087	0.371	0.011	0.0165	1.702	1.022	0.206	0.0804		0.0148	1.016	0.0049	
ECRM-D 130-1	Rail steel - chips	0.546	0.313	1.593	0.0209	0.0158	(0.032)	(0.031)		0.072	(0.003)		0.0038	0.0167	
ECRM-B 151-1	Low C High Si steel - chips (BCS-CRM 317)	0.028	3.49	0.085	0.015	0.023									
ECRM-B 152-1	Manganese-molybdenum steel - chips (BCS-CRM 214/2)	0.39	0.18	1.61	0.032	0.043	0.09	0.15	0.26	0.21	<0.01				
ECRM-B 153-1	Nickel-chromium-molybdenum steel - chips (BAS-CRM 219/4)	0.314	0.079	0.81	0.011	0.027	0.66	2.55	0.58	0.088			0.003		
ECRM-B 154-1	3% Nickel steel - chips (BCS-CRM 222/1)	0.31	(0.22)	0.62	0.020	0.009	0.05	3.54	0.029	0.14		0.038			
ECRM-B 155-1	Ni-Cr-Mo steel - chips (BCS-CRM 225/2)	0.40	0.23	0.56	0.019	0.012	1.08	1.43	0.34	0.17	<0.01	0.02	0.01	0.04	0.007
ECRM-D 179-2	Tool steel 60 WCrV 7, No. 1.2550 - chips	0.598	0.578	0.539	0.027	0.0006	1.081	0.078	0.07	0.111	0.188	0.0153			
ECRM-D 180-1	Low alloyed steel - chips	0.197	0.362	1.286	0.0174	0.0249	1.25	0.096		0.115				0.03	
ECRM-D 181-1	Low alloyed steel - chips	0.0589	1.054	1.047	0.018	0.035	0.126	0.07		0.174			0.022		

Code	Analyte - Measured Values (continued) N	Nb	Sb	Sn	Ti	W	Zn	Zr		Size	Type
ECRM-F 102-1										100 g	CRM
ECRM-F 106-2			0.0022	0.01						100 g	CRM
ECRM-F 107-1										100 g	CRM
ECRM-F 108-1										100 g	CRM
ECRM-F 112-1						1.78				100 g	CRM
ECRM-F 113-1										100 g	CRM
ECRM-F 114-1										100 g	CRM
ECRM-D 126-1										100 g	CRM
ECRM-D 128-1					0.89					100 g	CRM
ECRM-D 129-3	0.0046		0.00059	0.0067	0.003		(0.003)			100 g	CRM
ECRM-D 130-1	0.0093									100 g	CRM
ECRM-B 151-1										100 g	CRM
ECRM-B 152-1										100 g	CRM
ECRM-B 153-1				0.011						100 g	CRM
ECRM-B 154-1										100 g	CRM
ECRM-B 155-1	0.012	0.003	<0.25	0.02				<0.01		100 g	CRM
ECRM-D 179-2	0.0068				0.0014	1.87				100 g	CRM
ECRM-D 180-1	0.0068									100 g	CRM
ECRM-D 181-1	0.0068									100 g	CRM

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ECRM - Chips / Powders

Code	Description	Analyte - Measured Values										
		C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co
ECRM-D 182-1	Tool steel 80 CrV 2, No. 1.2235 - chips	0.79	0.368	0.389	0.0076	0.011	0.591	0.152		0.141	0.177	
ECRM-D 183-1	High Copper steel, No. 1.8962 - chips	0.0831	0.421	0.354	0.089	0.031	0.67	0.073		0.445		
ECRM-D 184-1	Low alloyed steel 35 NiCrMoV 14 6 - chips	0.333	0.218	0.528	0.0047	0.0032	1.287	3.318	0.457	0.06	0.108	0.056
ECRM-B 186-1	Alloy steel - chips	0.6104	1.719	0.870	0.0223	0.0354	0.0482	0.190	0.0482	0.281		
ECRM-D 187-1	Low alloyed boron steel - chips	0.195	0.026	1.354	0.014	0.025	1.186	0.096		0.161		0.014
ECRM-D 187-2	Low alloy cementation steel, 20MnCrS5 - chips/powder	0.2038	0.2111	1.257	0.0066	0.03	1.132	0.1755	0.0623	0.1288	0.0122	0.0112
ECRM-F 188-1	Low alloyed steel - chips	1.094				0.0113	1.538	0.28	0.17		0.02	0.06
ECRM-F 190-1	Low alloyed steel - chips	0.395	0.278	1.28	0.0112	0.0044	2.18	0.934	0.41			0.034
ECRM-D 191-2	Dynamo steel, material number: 1.0812 - chips	0.0043	3.267	0.1334	0.0087	0.0029	0.0314	0.0224	0.002	0.0165		
ECRM-D 192-1	Reactor steel, No. 1.6310 - chips	0.1875	0.219	1.377	0.0029	0.001	0.0717	0.755	0.482	0.0453		
ECRM-D 193-1	Reactor steel - chips	0.14	0.4	0.97	0.007	0.009	0.18	1.18	0.35	0.6	0.002	0.007
ECRM-D 194-1	Low sulfur steel - chips	0.1532	0.431	1.188	0.0097	0.00059	0.733	0.3417	0.2857	0.0751	0.0243	
ECRM-D 194-2-C	1.8928 - Low sulfur steel - chips	0.1694	0.2974	1.282	0.0137	0.00049	0.760	0.3316	0.402	0.0313	0.00161	0.00328
ECRM-B 195-1	Chromium-molybdenum-nickel steel - chips	0.756	0.466	0.571	0.0160	0.0121	1.566	0.327	0.768	0.0355	0.312	
ECRM-S 196-2	Silicon steel – chips	0.0060	1.808	0.364	0.00369	0.00065	0.0282	0.0401	0.0142	0.0057	0.00368	0.0138
ECRM-S 197-1	Low alloy steel, No. 1.7321 - chips	0.219	0.275	0.792	0.0073	0.0232	0.451	0.148	0.402	0.152		0.0135
ECRM-F 201-1	Stainless steel, 12% chromium - chips	0.291	0.843	0.363			12.33	0.202	0.05	0.099	(0.020)	
ECRM-F 210-1	Stainless steel, 4% chromium, 8.2% molybdenum, 1.7% vanadium and 1.5% tungsten - chips	0.762	0.2	0.25	(0.028)	(0.022)	3.92		8.15		1.65	0.185
ECRM-D 226-1	Stainless steel, 13.7% chromium no. 1.4034 - chips	0.416	0.514	0.434	0.0207	0.0094	13.67	0.139	0.024		0.022	

Code	Analyte - Measured Values (continued)																
	Al	Mg	Al(s)	Al(t)	As	B	Ca	N	Nb	Pb	Sb	Sn	Ti	W	Zn	Size	Type
ECRM-D 182-1	0.02				0.0202			0.0102								100 g	CRM
ECRM-D 183-1	0.027							0.0064								100 g	CRM
ECRM-D 184-1	0.0052				0.018			0.0051								100 g	CRM
ECRM-B 186-1	0.0143															100 g	CRM
ECRM-D 187-1	0.046				0.018	0.0004		0.014				0.011				100 g	CRM
ECRM-D 187-2	0.0223				0.0057	0.00048		0.0105				0.0237				100 g	CRM
ECRM-F 188-1																100 g	CRM
ECRM-F 190-1																100 g	CRM
ECRM-D 191-2	0.985				0.0018			0.00105				0.005	0.0024			100 g	CRM
ECRM-D 192-1	0.0306		0.0285					0.0118								100 g	CRM
ECRM-D 193-1	0.025				0.0062			0.0108	0.0232				0.0013			100 g	CRM
ECRM-D 194-1	0.0837				0.0042	0.002	0.0026	0.0115									CRM
ECRM-D 194-2-C	0.0669				0.00208	0.00155		0.00319	0.0290				0.00322			100 g	CRM
ECRM-B 195-1							0.0017	0.0100		0.0010	0.0008	(0.002)			0.0046	100 g	CRM
ECRM-S 196-2		0.00075		0.2167	0.00033	0.00014	0.00071	0.00178				0.00047	0.00253		0.00019	100 g	CRM
ECRM-S 197-1	0.0313				0.0083			0.0114				0.0097	0.0005			100 g	CRM
ECRM-F 201-1																100 g	CRM
ECRM-F 210-1														1.54		100 g	CRM
ECRM-D 226-1								0.0362								100 g	

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ECRM - Chips / Powders

		Analyte - Measured Values							
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo
ECRM-D 227-1	High-speed steel, 4% chromium, 2,6% molybdenum, 2,4% vanadium, 3 % Tungsten - no. 1.3333 - chips/powder	0.95	0.272	0.236	0.016	0.022	4.25	0.114	2.64
ECRM-D 231-2	Stainless steel, 18% chromium and 10% nickel, no. 1.4306 - chips/powder	0.014	0.368	1.263	0.0179	0.025	18.071	10.105	0.301
ECRM-D 235-1	Austenitic manganese steel, 12,7% manganese, no. 1.3401 - chips/powder	0.912	0.094	12.73	0.045	0.0072	0.354		0.032
ECRM-D 237-1	Stainless steel, 17% chromium and 10% nickel, no. 1.4550 - chips/powder	0.068	0.482	1.443	0.032	0.012	17.24	10.32	0.306
ECRM-B 251-1	High Speed steel - chips (BCS-CRM 241/2)	0.84	0.21	0.27	0.024	0.025	5.35	0.15	0.53
ECRM-B 253-1	13% Manganese steel - chips (BCS-CRM 290/2)	1.15	0.34	12.5	0.042	0.019	0.16	0.29	0.031
ECRM-B 254-1	High speed steel - chips (BCS-CRM 220/2)	0.88	0.19	0.3	0.023	0.029	5.12	0.12	4.92
ECRM-F269-1C	High Alloy Steel – chips	0.0499	0.441	1.262	0.0313	0.0010	18.150	8.044	0.397
ECRM-S 270-1	Stainless steel (similar to 1.4835) - chips	0.0742	1.517	0.54	0.0196	0.0007	20.88	10.86	0.2099
ECRM-D 271-1	High-alloyed steel (toolsteel 1.2344) - chips	0.3698	0.923	0.437	0.012	0.00045	5.002	0.1552	1.247

	Analyte - Measured Values (continued)															
Code	Cu	V	Co	Al	Ce	Mg	As	B	Bi	Ca	Ga	La	N	Nb	Pb	Pr
ECRM-D 227-1	0.124	2.44											0.04			
ECRM-D 231-2	0.0941	0.0708	0.0402	0.0032			0.0048	0.002		0.00074			0.0444		0.00007	
ECRM-D 235-1	0.073												0.02			
ECRM-D 237-1	0.123	0.057	0.221										0.035	0.66		
ECRM-B 251-1	0.08	1.59	5.7													
ECRM-B 253-1	0.17	0.02														
ECRM-B 254-1	0.09	1.94	0.32													
ECRM-F269-1C	0.366	0.0991	0.1116		(0.00006)	(<0.0005)	0.0061	(<0.0001)	(<0.000002)		(0.0024)	(0.000002)	0.0460	0.0242		
ECRM-S 270-1	0.1076	0.0256	0.0685	0.0023	0.0487	0.0009	0.0034				0.0021	0.0154	0.1417			0.00295
ECRM-D 271-1	0.1371	0.85	0.0139	0.0234			0.0057			0.0009			0.0137			

	Analyte - Measured Values (continued)											
Code	Sb	Se	Sn	Ta	Te	Ti	W	Zn	Zr		Size	Type
ECRM-D 227-1							3.03				100 g	CRM
ECRM-D 231-2			0.0043			0.0007	0.0141				100 g	CRM
ECRM-D 235-1											100 g	CRM
ECRM-D 237-1											100 g	CRM
ECRM-B 251-1			0.025				19.9				100 g	CRM
ECRM-B 253-1											100 g	CRM
ECRM-B 254-1			0.019				6.97				100 g	CRM
ECRM-F269-1C	(0.0012)	(<0.0002)	0.0099	(<0.0001)	(<0.000001)	0.0006	0.0306	(0.0004)	(<0.0001)		100 g	CRM
ECRM-S 270-1	0.0007		0.0035			0.0019	0.0244	0.00074			100 g	CRM
ECRM-D 271-1			0.0084			0.002	0.0054				100 g	CRM

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ECRM - Chips / Powders

Code	Description	Analyte - Measured Values C	Si	Mn	P	S	Cr	Ni	Mo
ECRM-B 272-1	12% Chromium steel - chips	0.2815	0.420	0.600	0.0156	0.0197	11.927	0.244	0.0030
ECRM-F 273-1	Stainless steel Z5CNU15.05 with 14.7 % Cr, 4.8 % Ni and 3 % Cu - chips	0.0336	0.378	0.785	0.0131	0.0004	14.747	4.85	0.2462
ECRM-S 274-1	Vanadium steel - chips	1.563	1.057	0.397	0.0148	0.0096	8.036	0.077	1.4551
ECRM-B 276-2	5% Cr-Mo-V steel - chips	0.399	1.034	0.365	0.0093	0.0189	4.975	0.203	1.134
ECRM-D 278-1	Stainless steel, 18% chromium, 1% molybdenum and 0,9% carbon - chips/powder	0.903	0.336	0.405	0.0154	0.0052	18.11	0.236	1.04
ECRM-F 279-2	Stainless steel, 15.6% chromium and 11% nickel - chips	0.088	0.516	0.258			15.642	1.603	
ECRM-B 281-1	Stainless steel, 18% chromium and 9% nickel - chips	0.048	0.929	0.786	0.012	0.016	18.17	9.37	
ECRM-F 282-1	Stainless steel, 17% chromium, 11% nickel, 2% molybdenum and 0.5% titanium - chips	0.086	0.734	1.64	0.019	0.0042	16.72	10.86	2.19
ECRM-D 283-1	Highly alloyed steel - chips	1.219	0.345	0.217	0.022	0.029	4.15		3.41
ECRM-D 284-2	Stainless steel, 17% chromium, 11% nickel and 2% molybdenum, no. 1.4571 - chips/powder	0.0201	0.537	1.745	0.0258	0.0237	16.811	10.72	2.111
ECRM-D 284-3-C	Stainless Steel 1.4571, 17% chromium, 11% nickel and 2% molybdenum, Chips	0.0025	0.0442	0.0615	0.0049	0.0066	17.37	12.09	2.236
ECRM-B 285-2	Maraging steel - chips	0.0018	0.0117	0.0168	0.0053	0.0025	0.0236	18.07	4.99
ECRM-D 286-1	Stainless steel, 18% chromium, 8,5% nickel, 0,3% molybdenum and 0.3% S - no. 1.4305- chips/powder	0.1		1.92	0.026	0.28	18.13	8.55	0.329
ECRM-B 287-1	High boron stainless steel - chips	0.016	0.569	1.48	0.027	0.0014	18.61	10.35	0.247
ECRM-D 288-1	Steel with 2% C and 12% Cr, no. 1.2436 - chips	2.08	0.26	0.292	0.024	0.0012	12	0.298	0.103

Code	Analyte - Measured Values (continued) Cu	V	Co	Al	As	B	N	Nb	Pb	Sb	Sn	Ti	W	Size	Type
ECRM-B 272-1	0.0145	0.0167	0.0192	0.0046	0.0116	0.0018	0.0508	0.0028		0.0007		0.00096		100 g	CRM
ECRM-F 273-1	3.046	0.0512	0.0391		0.003		0.0444	0.221			0.0021			100 g	CRM
ECRM-S 274-1	0.0281	4.01	0.023	0.0025	0.0013	0.0005	0.0769		0.000064	0.0002	0.001	0.0011	0.0087	100 g	CRM
ECRM-B 276-2	0.183	0.296					0.0116				0.0133			100 g	CRM
ECRM-D 278-1	0.077	0.077												100 g	CRM
ECRM-F 279-2	0.107													100 g	CRM
ECRM-B 281-1	0.076		0.023	0.015	0.015	0.0012	0.023		0.0005		0.0009	0.216		100 g	CRM
ECRM-F 282-1	0.109											0.488		100 g	CRM
ECRM-D 283-1		3.28	10.27			0.0003	0.033						9.66	100 g	CRM
ECRM-D 284-2	0.1831	0.0425	0.0525	0.0027	0.0063	0.0026	0.0151				0.0047	0.191		100 g	CRM
ECRM-D 284-3-C	0.0105		0.0366		0.00131	0.0002	0.0418				0.00074	0.005	0.0039	100 g	CRM
ECRM-B 285-2	0.0094		7.76	0.1067		0.0009	0.0007					0.520		100 g	CRM
ECRM-D 286-1			0.15				0.043			0.0014	0.0084			100 g	CRM
ECRM-B 287-1	0.203		0.148			0.924	0.019							100 g	CRM
ECRM-D 288-1	0.06	0.055	0.018	0.012	0.0065		0.0151			0.0014	0.0043		0.6823	100 g	CRM

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ECRM - Chips / Powders

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		C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co
ECRM-D 289-1	Heat-resisting steel - chips	0.0489	0.531	1.016	0.0114	0.0027	14.63	24.68	1.102		0.26	0.065
ECRM-D 290-1	High-speed steel, 4% chromium, 5% cobalt und 5% molybdenum, no. 1.3243 - powder	0.91	0.08	0.24	0.016	0.016	4.18	0.33	4.81	0.081	1.92	5.12
ECRM-D 291-1	Highly alloyed steel, 17% chromium and 2% molybdenum, no. 1.4748 - powder	0.9	0.91	0.81	0.017	0.0088	17.15	0.56	2.1	0.071	0.39	0.0233
ECRM-B 292-1	Nb-stabilised stainless steel - chips	0.0367	0.402	1.744	0.0175	0.0055	18	10.09	0.0464	0.0391		0.0255
ECRM-D 294-1	Manganese steel, material-no. 1.3816 - chips	0.0657	0.283	18.68	0.0271	0.00031	17.98	0.429	0.0861	0.0242	0.0694	0.0288
ECRM-B 295-1	4% Mo-Cr-Ni steel - chips	0.0166	0.418	1.758	0.0167	0.0004	19.51	24.4	3.996	1.481	0.0453	0.045
ECRM-B 296-1	Jethete steel - chips	0.1166	0.242	0.676	0.0178	0.0026	11.82	2.79	1.7	0.1498	0.363	0.0218

Code	Analyte - Measured Values (continued)																
	Al	As	B	Ca	Fe	N	Nb	Pb	Sb	Sn	Ta	Te	Ti	W	Zr	Size	Type
ECRM-D 289-1	0.199		0.0044							0.111			2.01			100 g	CRM
ECRM-D 290-1						0.0325								6.24		100 g	CRM
ECRM-D 291-1						0.1142										100 g	CRM
ECRM-B 292-1	0.002	0.008		0.0006		0.064	0.571				0.001					100 g	CRM
ECRM-D 294-1	0.0095	0.0037	<0.00005	0.00026		0.566	0.00117	0.000128	0.00053	0.0014		<0.00008	0.0008	0.00114	0.0001	100 g	CRM
ECRM-B 295-1	0.0203	0.0041	0.0018		48.36	0.0615			0.0007	0.0025						100 g	CRM
ECRM-B 296-1	0.0275	0.0139	0.0003			0.0214		0.00016		0.0131						100 g	CRM

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ECRM - Chips / Powders

Code	Description	Analyte - Measured Values									
		C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V
ECRM-D 297-1	1.2 % boron steel, material-no. 1.4696 - chips	0.0223	0.344	0.897	0.0137	0.0101	18.37	12.33	0.29	0.204	0.0535
ECRM-S 298-1	Duplex stainless steel (similar to EN 1.4410) - chips	0.0146	0.262	0.398	0.0198	0.0006	24.72	7.056	3.799	0.201	0.0607
ECRM-D 299-1	Ferrtic electric heating steel No. 1.4765 - chips	0.0154	0.299	0.2678	0.0152	0.00022	22.32	0.172	0.0186	0.0382	0.0329
ECRM-D 327-2	High-temperature steel with 24,4% chromium, 19,7% nickel, 2% silicon and 0,15% carbon - chips	0.152	2.052	1.289	0.0228	0.0046	24.35	19.72	0.174	0.06	0.044
ECRM-D 328-1	High-temperature turbine steel with 20,5% chromium, 20,4% nickel and 41,7% cobalt - chips	0.39	0.629	1.395	0.005	0.003	20.54	20.38	4.41	0.013	
ECRM-B 376-1	24% Co magnet alloy - chips/powder	0.026	0.313	0.046		0.004		13.37		2.94	
ECRM-S 379-1	Stainless Steel (similar to 1.4563) - chips	0.0121	0.393	1.804	0.0166	0.0006	26.79	30.83	3.29	0.984	0.0663

Code	Analyte - Measured Values (continued)																		
	Co	Al	Ce	Mg	Ag	As	B	Bi	Ca	Fe	Ga	N	Nb	Nd	Pb	Sb	Sn	Ta	Ta2O5
ECRM-D 297-1	0.0413	0.0195				0.004	1.146		0.0002			0.0152	0.0089						
ECRM-S 298-1	0.055	0.0285					0.0021			63.38		0.263			0.00008				
ECRM-D 299-1	0.0187	5.33				0.0054	0.0002					0.0198							
ECRM-D 327-2	0.159	0.07										0.059							
ECRM-D 328-1	41.65	0.07								2.4		0.027	3.61					0.13	
ECRM-B 376-1	23.7	8.12											0.309					0.016	
ECRM-S 379-1	0.039	0.00246	0.00001	0.0006	0.00007	0.0018	0.0019	0.000001	0.0033	35.6	0.0023	0.055	0.0028	0.00006	0.000038	0.00057	0.0021		0.000004

Code	Analyte - Measured Values (continued)				
	Ti	W	Zr	Size	Type
ECRM-D 297-1	0.0072	0.0057	0.0002	100 g	CRM
ECRM-S 298-1	0.0014			100 g	CRM
ECRM-D 299-1	0.1289		0.1775	100 g	CRM
ECRM-D 327-2				100 g	CRM
ECRM-D 328-1		4.16		100 g	CRM
ECRM-B 376-1	0.158			100 g	CRM
ECRM-S 379-1	0.0014	0.0091	0.00033	100 g	CRM

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NIST - Chips / Powders

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	As	Ga	N	Sb
NIST-8K	Bessemer Steel (Simulated), 0.1 % Carbon	0.0806	(0.0576)	0.5046	0.0956	0.0775	0.0467	0.1174	(0.0397)	0.02	0.0145						
NIST-12H	Basic Open-Hearth Steel 0.4% Carbon	0.407	0.235	0.842	0.018	0.027	0.074	0.032	0.006	0.073	0.003					0.006	
NIST-13G	Carbon Steel, 0.6%	0.613	0.35	0.853	0.006	0.031	0.05	0.061		0.066	0.001		0.04				
NIST-14G	Carbon Steel, (AISI 1078)	0.735	0.232	0.456	0.006	0.019	0.081	0.03	0.011	0.047	0.0008	(0.003)	0.025				
NIST-16F	Basic Open- Hearth Steel, 1% carbon	0.97	0.214	0.404	0.014	0.026	0.02	0.008	(0.003)	0.006	(0.002)	(0.003)					
NIST-19H	Basic Electric Steel 0.2% Carbon	0.215	0.211	0.393	0.016	0.022	0.173	0.248	0.038	0.466	(0.003)		(0.002)				
NIST-20G	Carbon steel	0.462	0.305	0.665	0.012	0.028	0.036	0.034	0.008	0.034	0.002		0.04				
NIST-30F	LA Steel, Cr-V (SAE 6150)	0.49	0.283	0.79	0.011	0.009	0.945	0.07		0.074	0.182					(0.01)	
NIST-32E	LA Stl, Ni-Cr SAE 3140	0.4086	0.2775	0.7983	0.00888	0.021	0.6775	1.1938	0.0228	0.1266	(0.00225)					(0.009)	
NIST-33E	Low alloy steel, Ni-Mo (SAE 4820)	0.186	0.262	0.525	(0.005)	0.009	0.068	3.36	0.224	0.07			0.03				
NIST-36B	Low alloy steel, Cr.-Mo	0.1143	0.258	0.4041	(0.0074)	0.01871	2.178	0.205	0.996	0.1792	(0.0043)						
NIST-50C	Tungsten-Chromium-Vanadium Steel	0.7193	0.3102	0.3417	0.0222	0.006367	4.128	0.0686	0.0821	0.0792	1.158	(0.035)		0.0225		0.0117	
NIST-72G	LA Steel (AISI 4130)	0.278	0.223	0.492	0.009	0.014	0.905	(0.016)	0.17	0.011	(0.003)						
NIST-100B	LA Steel, Manganese (SAE T340)	0.397	0.21	1.89	0.023	0.028	0.063	0.03	0.237	0.064	0.003					0.004	
NIST-101G	Stainless Steel (AISI 304L)	0.0136	1.08	0.085	0.007	0.0078	18.46	10	(0.004)	0.029	0.041	0.09		(0.003)	(0.003)		(0.001)

Analyte - Measured Values (continued)

Code	Sn	Ti	W	Zr		Size	Type
NIST-8K						150 g	CRM
NIST-12H						150 g	CRM
NIST-13G						150 g	CRM
NIST-14G		<0.001		<0.001		150 g	CRM
NIST-16F						150 g	CRM
NIST-19H						150 g	CRM
NIST-20G						150 g	CRM
NIST-30F						150 g	CRM
NIST-32E	(0.011)					150 g	CRM
NIST-33E						150 g	CRM
NIST-36B						150 g	CRM
NIST-50C	0.0183		18.445			150 g	CRM
NIST-72G						150 g	CRM
NIST-100B						150 g	CRM
NIST-101G			(0.0003)			100 g	CRM

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NIST - Chips / Powders

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Mg	As	Bi
NIST-106B	Low alloy steel, Cr-Mo-Al (Nitralloy G)	0.326	0.274	0.506	0.008	0.016	1.18	0.217	0.199	0.117	0.003		1.07			
NIST-126C	High Alloy Steel, (36% Ni)	0.0254	0.1936	0.4684	(0.0035)	(0.005)	(0.0625)	36.054	(0.011)	(0.0396)	(0.001)	(0.008)				
NIST-132B	Tool steel (AISI M2)	0.864	0.185	0.341	0.012	0.004	4.38	0.23	4.9	0.088	1.83	0.029				
NIST-133B	Chromium-Molydenum steel	0.128	0.327	1.07	0.018	0.328	12.63	0.23	0.052	0.08	0.071		<0.005	<0.0005		
NIST-125B	LA steel, high silicon	0.0261	2.889	0.2751	0.0276	0.0095	0.0198	0.0375	0.0087	0.0707	0.0005	0.007	0.329		0.003	
NIST-134A	Tool steel, Mo-W-Cr-V	0.808	0.323	0.218	0.018	0.007	3.67	0.088	8.35	0.101	1.25					
NIST-139B	Low alloy steel, Cr-Ni-Mo (AISI 8640)	0.403	0.242	0.778	0.013	0.019	0.488	0.51	0.182	0.097	(0.004)					
NIST-152A	Basic Open-Hearth Steel 0.5% Carbon (Tin bearing)	0.486	0.202	0.717	0.012	0.03	0.046	0.056	0.036	0.023	0.001					
NIST-155	Low alloy steel, Cr-W	0.905	0.322	1.24	0.015	0.01	0.485	0.1	0.039	0.083	(0.014)					
NIST-160B	Stainless Steel (AISI 316)	0.0445	0.5093	1.619	0.02	0.0175	18.37	12.35	2.386	0.1734	0.0508	0.1052			0.01067	(<0.0005)
NIST-163	LA Steel, 1.0 C	0.933	0.488	0.897	0.007	0.027	0.982	0.081	0.029	0.087						
NIST-178	Carbon steel, 0.4 C	0.395	0.163	0.824	0.012	0.014	0.016	0.01	0.003	0.032	0.001					
NIST-179	Low alloy steel, high silicon	0.027	3.19	0.094	0.006	0.026	0.022	0.05	0.014	0.056	<0.01		0.0028			
NIST-291	Low alloy steel, Cr-Mo (ASTM A213)	0.177	0.23	0.55	0.008	0.02	1.33	0.065	0.53	0.047			(0.002)			
NIST-293	LA Steel, Cr-Ni-Mo (AISI 8620)	0.222	0.3	0.96	0.018	0.022	0.51	0.48	0.2	0.032	0.004		0.039			

Analyte - Measured Values (continued)

Code	Ca	Fe	N	Pb	Sb	Sn	Ti	W	Zr		Size	Type
NIST-106B											150 g	CRM
NIST-126C											150 g	CRM
NIST-132B								6.28			150 g	CRM
NIST-133B	<0.0005		(0.05)	<0.0005		(0.004)					150 g	CRM
NIST-125B		95.8			0.0009	0.0034	0.004		0.001		100 g	CRM
NIST-134A								2			150 g	CRM
NIST-139B			0.007								150 g	CRM
NIST-152A						0.032					150 g	CRM
NIST-155								0.517			150 g	CRM
NIST-160B			(0.04)	(0.001)				(0.11)			150 g	CRM
NIST-163			(0.007)								100 g	CRM
NIST-178											150 g	CRM
NIST-179						0.004					150 g	CRM
NIST-291											150 g	CRM
NIST-293											150 g	CRM

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NIST - Chips / Powders

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Ce	Mg	Ag	As
NIST-339	Stainless steel, Cr-Ni-Se (SAE 303Se)	0.052	0.654	0.738	0.129	0.013	17.42	8.89	0.248	0.199	0.058	0.096					
NIST-343A	Stainless steel, (AISI 431)	0.149	0.545	0.42	0.026	0.001	15.64	2.16	0.164	0.162	0.056						
NIST-345A	HA Stl, Cu PPH Hardness	0.04	0.61	0.79	0.024	0.012	15.52	4.27	0.43	3.39	0.08	0.099					
NIST-346A	Valve Steel (Cr22-Ni4-Mn9)	0.502	0.219	9.16	0.031	0.002	21.08	3.43	0.237	0.375	0.096	(0.05)	(0.001)				
NIST-361	La Stl, Aisi 4340	0.383	0.222	0.66	0.014	0.0143	0.694	2	0.19	0.042	0.011	0.032	(0.021)	0.004	0.00026	0.0004	0.017
NIST-363	LA Steel, Cr-V	0.62	0.74	1.5	0.029	0.0068	1.31	0.3	0.028	0.1	0.31	0.048	0.24	0.003	0.00062	0.0037	0.01
NIST-364	La Stl, Hi C Mod	0.87	0.06	0.25	0.01	0.025	0.06	0.14	0.49	0.24	0.1	0.15		0.0005	0.00016		0.05
NIST-368	Carbon steel (AISI 1211)	0.09	0.0067	0.8238	0.0827	0.1324	0.0295	0.00783	0.00311	0.00984	0.0013						

Analyte - Measured Values (continued)

Code	B	Bi	Ca	Fe	La	N	Nb	Nd	Pb	Sb	Se	Sn	Ta	Te	Ti	W	Zn	Zr	Size	Type
NIST-339											0.247								150 g	CRM
NIST-343A						0.078													150 g	CRM
NIST-345A						0.031	0.27									0.309			150 g	CRM
NIST-346A	<0.001					0.442	(0.01)		<0.0001			(0.008)			<0.001	(0.01)			150 g	CRM
NIST-361	0.000478		0.0001				0.022	0.00075	0.000025	0.0042		0.01	0.02		0.02	0.017		0.009	150 g	CRM
NIST-363	0.00131	(0.0008)	0.00022	(94.4)	(0.002)	(0.0041)	0.049	0.0012	0.00186	(0.002)	(0.00016)	0.104	(0.053)	(0.0009)	0.05	0.046	(0.0004)	0.049	150 g	CRM
NIST-364	0.0106		0.00003				0.15	0.0001	0.023	0.034		0.008	0.11		0.24	0.1		0.068	150 g	CRM
NIST-368						0.0103													150 g	CRM

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BAS - Chips / Powders

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	As	B	Ca
BAS-BCS-CRM 111	Low Carbon Steel - chips/powder	0.0258	0.0253	0.155	0.0033	0.0054	0.0197	0.0387	0.0008	0.0171	0.0009	0.0144	0.0348	0.0017		(<0.0005)
BAS-BCS-CRM 112	Low Alloy Steel - chips/powder	0.394	0.289	0.436	0.0043	0.0026	1.236	1.461	0.190	0.149	0.0088	0.0175	0.0148	0.0021	0.0007	(<0.0005)
BAS-BCS-CRM 113	Low Alloy Steel - chips/powder	0.837	0.931	1.207	0.0595	0.0294	1.248	0.0784	0.056	0.179	0.201	0.0415	0.0151	0.0020	0.0066	(<0.001)
BAS-BCS-CRM 114	Low Alloy Steel - chips/powder	0.403	0.295	0.416	0.0044	0.0046	0.187	1.502	0.184	0.360	0.0086	0.0171	0.078	0.0025	0.0008	(<0.001)
BAS-BCS-CRM 115	Treated Steel, chips	0.6224	0.2078	0.682	0.0123	0.00093	0.0198	0.0196	(0.003)	(0.009)	(0.001)	(0.006)	0.0527		(<0.0001)	0.0058
BAS-BCS-CRM 116	Calcium treated Steel, chips	0.617	0.201	0.6756	0.0092	0.00176	0.0141	0.0069					0.0587			0.0036
BAS-BCS-CRM 161/4	0,8% Carbon Steel - chips/powder	0.817	0.202	0.504	0.0105	0.0096										
BAS-BCS-CRM 222/1	3,5% Nickel Steel, chips	0.3095	0.227	0.618	0.0175	0.0089	0.0535	3.536	0.0287	0.15	0.02	0.0379			<0.005	
BAS-BCS-CRM 318A	0,01% Oxygen Steel, 2 x Ø 6.35x95	(0.083)	(0.12)	(0.39)	(0.018)	(0.035)							(<0.002)			
BAS-BCS-CRM 318B	0,01% Oxygen Steel	(0.083)	0.12	(0.39)	(0.018)	(0.035)							(<0.002)			
BAS-BCS-CRM 332	Austenitic Stainless Steel - chips/powder	0.063	0.44	0.8	0.015	0.02	12.8	12.45		(0.10)	(0.02)	(0.037)				
BAS-BCS-CRM 339	Ferritic Stainless Steel - chips/powder	0.29	0.36	0.41	0.022	0.022	12.4	0.37		(0.08)						
BAS-BCS-CRM 340	Ferritic Stainless Steel - chips/powder	0.18	0.35	0.38	0.024	0.02	16.35	0.4		(0.06)						
BAS-BCS-CRM 341	Ferritic Stainless Steel - chips/powder	0.1	0.31	0.43	0.016	0.024	24	0.56		(0.10)						
BAS-BCS-CRM 342	Ferritic Stainless Steel - chips/powder	0.18	0.92	0.91	0.03	0.026	16.15	2.16	0.69	(0.08)						
BAS-BCS-CRM 383	Alcomax III - chips/powder	0.025		(0.07)		0.2		(13.2)		(2.63)		(24.4)	(7.7)			
BAS-BCS-CRM 398	Alnico H C - chips/powder	0.025	0.11	0.065		0.19		16.59		6.09		14.92	9.98			
BAS-BCS-CRM 401/2	Low Alloy Steels - chips/powder	0.935	0.602	1.197	0.0265	0.0078	0.138	0.019	0.495	0.101	0.496	0.0042	0.074			

Analyte - Measured Values (continued)

Code	N	Nb	Pb	Sb	Sn	Ti	W	Zn	Zr		Size	Type
BAS-BCS-CRM 111	0.0034	(0.0005)	(<0.001)	(<0.001)	0.0015	0.0004					100 g	CRM
BAS-BCS-CRM 112	0.0024	0.0065	(<0.001)	(<0.001)	0.0086	0.0100			(<0.001)		100 g	CRM
BAS-BCS-CRM 113	0.0109	0.0487	(<0.001)	(<0.003)	0.0067	0.0390	0.012		0.0029		100 g	CRM
BAS-BCS-CRM 114	0.0043	0.0042	(<0.001)	(<0.0025)	0.041	0.0096	(<0.001)		0.0051		100 g	CRM
BAS-BCS-CRM 115	0.0067		(0.0002)		(0.002)	0.0027		(0.0006)			100 g	CRM
BAS-BCS-CRM 116			0.00012			0.00171					100 g	CRM
BAS-BCS-CRM 161/4											100 g	CRM
BAS-BCS-CRM 222/1	0.01										100 g	CRM
BAS-BCS-CRM 318A											100 g	CRM
BAS-BCS-CRM 318B											100 g	CRM
BAS-BCS-CRM 332											100 g	CRM
BAS-BCS-CRM 339											100 g	CRM
BAS-BCS-CRM 340											100 g	CRM
BAS-BCS-CRM 341											100 g	CRM
BAS-BCS-CRM 342											100 g	CRM
BAS-BCS-CRM 383		(0.51)									100 g	CRM
BAS-BCS-CRM 398		0.13				0.765					100 g	CRM
BAS-BCS-CRM 401/2	(0.015)	(0.015)									100 g	CRM

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BAS - Chips / Powders

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Al(t)	As	N
BAS-BCS-CRM 402/2	Low Alloy Steels - chips/powder	1.311	0.111	0.228	0.0161	0.0138	0.652	0.808	0.140	0.302	0.194		0.161		0.161	0.0069
BAS-BCS-CRM 403/2	Low Alloy Steels - chips/powder	0.750	0.209	1.677	0.055	0.0381	0.463	0.223	0.088	0.221	0.341		0.0485			(0.01)
BAS-BCS-CRM 404/1	Low Alloy Steels - chips/powder	0.74	0.87	0.31	0.057	0.024	0.48	0.40	0.31	0.34	0.11					
BAS-BCS-CRM 404/2	Low Alloy Steels - chips/powder	0.696	1.121	0.532	0.0479	0.0228	0.774	0.393	0.307	0.427	0.107		0.017			0.0089
BAS-BCS-CRM 405	Low Alloy Steels - chips/powder	0.058	1.38	1.28	0.017	0.060	0.21	0.12	0.017	0.015	0.32					
BAS-BCS-CRM 405/1	Low Alloy Steels - chips/powder	0.032	1.71	1.28	0.018	0.069	0.15	0.22	0.002	0.013	0.28					
BAS-BCS-CRM 405/2	Low Alloy Steel - chips/powder	0.044	0.947	0.903	0.0095	0.058	0.206	0.102	0.025	0.022	0.411	(0.009)	0.330			
BAS-BCS-CRM 406/2	Low Alloy Steels - chips/powder	0.173	0.342	0.447	0.0102	0.043	2.001	1.62	0.98	0.289	0.010	(0.006)	0.013		0.012	(0.009)
BAS-BCS-CRM 407/1	Low Alloy Steels - chips/powder	0.47	0.59	0.047	0.030	0.010	2.95	0.59	0.78	0.57	0.18					
BAS-BCS-CRM 407/2	Low Alloy Steels - chips/powder	0.490	0.66	0.195	0.038	0.0105	3.03	0.527	0.83	0.397	0.19	0.0068	0.040			(0.011)
BAS-BCS-CRM 408	Low Alloy Steels - chips/powder	0.28	0.24	0.64	0.043	0.030	0.090	4.58	0.14	0.73	0.063					
BAS-BCS-CRM 408/1	Low Alloy Steels - chips/powder	0.285	0.23	0.51	0.037	0.028	0.102	4.45	0.09	0.66	0.031					
BAS-BCS-CRM 408/2	Low Alloy Steel - chips/powder	0.289	0.237	0.557	0.056	0.030	0.111	4.13	0.098	0.694	0.067			0.154	0.0046	0.0075
BAS-BCS-CRM 409/1	Low Alloy Steels - chips/powder	0.082	1.46	0.44	0.025	0.021	0.94	3.06	0.65	0.048	0.09	0.014				
BAS-BCS-CRM 409/2	Low Alloy Steels - chips/powder	0.086	1.18	0.559	0.141	0.0179	1.318	3.02	0.599	0.205	0.008		0.094			0.0108
BAS-BCS-CRM 410/2	Low Alloy Steels - chips/powder	0.428	1.1	0.419	0.074	0.041	1.684	2.07	0.432	0.436	0.44	0.0248	0.046		0.0053	0.0155
BAS-BCS-CRM 421	Low Tungsten Steels - chips/powder	(0.049)	(0.07)	(0.11)	(0.012)	(0.027)			(0.028)		(<0.02)					
BAS-BCS-CRM 422	Low Tungsten Steels - chips/powder	(0.036)	(0.06)	(0.09)	(0.015)	(0.025)			(0.033)		(<0.02)					

Analyte - Measured Values (continued)

Code	Nb	Pb	Sn	W		Size	Type
BAS-BCS-CRM 402/2						100 g	CRM
BAS-BCS-CRM 403/2						100 g	CRM
BAS-BCS-CRM 404/1						100 g	CRM
BAS-BCS-CRM 404/2						100 g	CRM
BAS-BCS-CRM 405						100 g	CRM
BAS-BCS-CRM 405/1						100 g	CRM
BAS-BCS-CRM 405/2	0.011					100 g	CRM
BAS-BCS-CRM 406/2		0.0002	(0.001)			100 g	CRM
BAS-BCS-CRM 407/1						100 g	CRM
BAS-BCS-CRM 407/2						100 g	CRM
BAS-BCS-CRM 408						100 g	CRM
BAS-BCS-CRM 408/1						100 g	CRM
BAS-BCS-CRM 408/2		0.0006				100 g	CRM
BAS-BCS-CRM 409/1						100 g	CRM
BAS-BCS-CRM 409/2						100 g	CRM
BAS-BCS-CRM 410/2						100 g	CRM
BAS-BCS-CRM 421				0.52		100 g	CRM
BAS-BCS-CRM 422				1.28		100 g	CRM

Values listed in mass %: ( ) Uncertified Value,

C=Cast, CC=Chill Cast, CCC=Continuous Chill Cast, CW=Concast/Wrought, W=Wrought, SC=Single Cast, HIP=Hot Isostatically-pressed Powder

BAS - Chips / Powders

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Al(t)	As	N
BAS-BCS-CRM 403/2	Low Alloy Steels - chips/powder	0.750	0.209	1.677	0.055	0.0381	0.463	0.223	0.088	0.221	0.341		0.0485			(0.01)
BAS-BCS-CRM 404/1	Low Alloy Steels - chips/powder	0.74	0.87	0.31	0.057	0.024	0.48	0.40	0.31	0.34	0.11					
BAS-BCS-CRM 404/2	Low Alloy Steels - chips/powder	0.696	1.121	0.532	0.0479	0.0228	0.774	0.393	0.307	0.427	0.107		0.017			0.0089
BAS-BCS-CRM 405	Low Alloy Steels - chips/powder	0.058	1.38	1.28	0.017	0.060	0.21	0.12	0.017	0.015	0.32					
BAS-BCS-CRM 405/1	Low Alloy Steels - chips/powder	0.032	1.71	1.28	0.018	0.069	0.15	0.22	0.002	0.013	0.28					
BAS-BCS-CRM 405/2	Low Alloy Steel - chips/powder	0.044	0.947	0.903	0.0095	0.058	0.206	0.102	0.025	0.022	0.411	(0.009)	0.330			
BAS-BCS-CRM 406/2	Low Alloy Steels - chips/powder	0.173	0.342	0.447	0.0102	0.043	2.001	1.62	0.98	0.289	0.010	(0.006)	0.013		0.012	(0.009)
BAS-BCS-CRM 407/1	Low Alloy Steels - chips/powder	0.47	0.59	0.047	0.030	0.010	2.95	0.59	0.78	0.57	0.18					
BAS-BCS-CRM 407/2	Low Alloy Steels - chips/powder	0.490	0.66	0.195	0.038	0.0105	3.03	0.527	0.83	0.397	0.19	0.0068	0.040			(0.011)
BAS-BCS-CRM 408	Low Alloy Steels - chips/powder	0.28	0.24	0.64	0.043	0.030	0.090	4.58	0.14	0.73	0.063					
BAS-BCS-CRM 408/1	Low Alloy Steels - chips/powder	0.285	0.23	0.51	0.037	0.028	0.102	4.45	0.09	0.66	0.031					
BAS-BCS-CRM 408/2	Low Alloy Steel - chips/powder	0.289	0.237	0.557	0.056	0.030	0.111	4.13	0.098	0.694	0.067			0.154	0.0046	0.0075
BAS-BCS-CRM 409/1	Low Alloy Steels - chips/powder	0.082	1.46	0.44	0.025	0.021	0.94	3.06	0.65	0.048	0.09	0.014				
BAS-BCS-CRM 409/2	Low Alloy Steels - chips/powder	0.086	1.18	0.559	0.141	0.0179	1.318	3.02	0.599	0.205	0.008		0.094			0.0108
BAS-BCS-CRM 410/2	Low Alloy Steels - chips/powder	0.428	1.1	0.419	0.074	0.041	1.684	2.07	0.432	0.436	0.44	0.0248	0.046		0.0053	0.0155
BAS-BCS-CRM 421	Low Tungsten Steels - chips/powder	(0.049)	(0.07)	(0.11)	(0.012)	(0.027)			(0.028)		(<0.02)					
BAS-BCS-CRM 422	Low Tungsten Steels - chips/powder	(0.036)	(0.06)	(0.09)	(0.015)	(0.025)			(0.033)		(<0.02)					
BAS-BCS-CRM 423	Low Tungsten Steels - chips/powder	(0.030)	(0.05)	(0.07)	(0.017)	(0.027)			(0.027)		(<0.02)					
BAS-BCS-CRM 424	Low Tungsten Steels - chips/powder	(0.024)	(0.05)	(0.09)	(0.02)	(0.024)			(0.036)		(<0.02)					

Analyte - Measured Values (continued)

Code	Nb	Pb	Sn	W		Size	Type
BAS-BCS-CRM 403/2						100 g	CRM
BAS-BCS-CRM 404/1						100 g	CRM
BAS-BCS-CRM 404/2						100 g	CRM
BAS-BCS-CRM 405						100 g	CRM
BAS-BCS-CRM 405/1						100 g	CRM
BAS-BCS-CRM 405/2	0.011					100 g	CRM
BAS-BCS-CRM 406/2		0.0002	(0.001)			100 g	CRM
BAS-BCS-CRM 407/1						100 g	CRM
BAS-BCS-CRM 407/2						100 g	CRM
BAS-BCS-CRM 408						100 g	CRM
BAS-BCS-CRM 408/1						100 g	CRM
BAS-BCS-CRM 408/2		0.0006				100 g	CRM
BAS-BCS-CRM 409/1						100 g	CRM
BAS-BCS-CRM 409/2						100 g	CRM
BAS-BCS-CRM 410/2						100 g	CRM
BAS-BCS-CRM 421				0.52		100 g	CRM
BAS-BCS-CRM 422				1.28		100 g	CRM
BAS-BCS-CRM 423				2.06		100 g	CRM
BAS-BCS-CRM 424				3.02		100 g	CRM

Values listed in mass %: ( ) Uncertified Value,

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BAS - Chips / Powders

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Al(s)	As
BAS-BCS-CRM 431/2	Plain Carbon Steels - chips/powder	0.0249	0.015	0.902	0.121	0.0065	0.049	0.040	(0.004)	(0.015)	(0.003)	(0.006)	(0.01)		(0.005)
BAS-BCS-CRM 432/2	Plain Carbon Steels - chips/powder	0.0065	0.0822	0.712	0.0171	0.036	0.0166	0.0196	(0.002)	(0.015)	(<0.001)	(0.006)	(<0.002)		
BAS-BCS-CRM 433/2	Plain Carbon Steels - chips/powder	0.096	0.0071	1.188	0.011	0.0083	0.0262	0.037	(0.004)	(0.025)	(0.001)	(0.006)			
BAS-BCS-CRM 434/2	Plain Carbon Steels - chips/powder	0.275	0.51	1.546	0.0611	0.0141	0.238	0.037	(0.014)	(0.025)	(0.04)	(0.006)			
BAS-BCS-CRM 435/2	Plain Carbon Steels - chips/powder	0.489	0.328	0.390	0.0373	0.0424	0.184	0.133	(0.018)	(0.05)	(0.005)	0.0116			
BAS-BCS-CRM 451/1	Carbon Steels-Residuals Series - chips/powder	0.051	0.116	0.62	0.009	0.014	0.104	0.016	0.039	0.47					0.041
BAS-BCS-CRM 452/1	Carbon Steels-Residuals Series - chips/powder	0.323	0.055	1.30	0.035	0.017	0.067	0.19	0.054	0.22					0.015
BAS-BCS-CRM 453/1	Carbon Steels-Residuals Series - chips/powder	0.16	0.34	1.38	0.044	0.026	0.26	0.11	0.081	0.099					0.052
BAS-BCS-CRM 456/2	Carbon Steels-Residuals Series - chips/powder	0.112	0.297	0.220	0.0212	0.0221					0.0221	0.0504	0.0018		
BAS-BCS-CRM 458/2	Carbon Steels-Residuals Series - chips/powder	0.198	0.504	0.479	0.0281	0.0314					0.105	0.198	0.055		
BAS-BCS-CRM 459/2	Carbon Steels-Residuals Series - chips/powder	0.467	0.640	0.909	0.0482	0.0481					0.0585	0.089	0.0154	0.0134	
BAS-BCS-CRM 460/2	Carbon Steels-Residuals Series - chips/powder	0.383	0.126	0.616	0.0374	0.0099					0.0322	0.0106	0.0240		
BAS-BCS-CRM 461/1	Austenitic Stainless Steels - chips/powder	0.0103	0.374	0.686	0.0053	0.0051	14.727	6.124	0.0138	0.0091		(0.004)	(0.002)		(0.004)
BAS-BCS-CRM 462	Austenitic Stainless Steels - chips/powder	0.092	0.46	0.74	0.01	0.018	12.35	12.55							0.007
BAS-BCS-CRM 462/1	Austenitic Stainless Steels - chips/powder	0.0345	0.463	0.722	0.0053	0.0041	11.888	12.85	0.0304	0.0112					
BAS-BCS-CRM 463	Austenitic Stainless Steels - chips/powder	0.088	0.51	0.77	0.015	0.017	18.3	9.65							
BAS-BCS-CRM 463/1	Austenitic Stainless Steels - chips/powder	0.019	0.27	1.4	0.0025	0.019	18.46	10.2	0.265	0.276		0.116			
BAS-BCS-CRM 465/1	Austenitic Stainless Steels - chips/powder	0.066	0.405	1.38	0.021	0.012	17.31	9.24	0.092	0.098	0.102	0.053	0.026		
BAS-BCS-CRM 466/2	Austenitic Stainless Steels - chips/powder	0.0141	0.48	1.311	0.0105	0.0069	17.84	10.2	2.776	0.0278	0.0346	0.0184	(0.002)		0.002

Analyte - Measured Values (continued)

Code	B	N	Nb	Pb	Sb	Sn	Ti	W	Zr		Size	Type
BAS-BCS-CRM 431/2		0.0052	0.0040			(<0.001)	(0.005)	(0.004)			100 g	CRM
BAS-BCS-CRM 432/2		0.0066	0.0174					(0.003)			100 g	CRM
BAS-BCS-CRM 433/2			0.0590					(0.003)			100 g	CRM
BAS-BCS-CRM 434/2		0.0104	0.038					(0.04)			100 g	CRM
BAS-BCS-CRM 435/2			0.134					(0.015)			100 g	CRM
BAS-BCS-CRM 451/1				(0.0005)		0.002	0.105	0.099			100 g	CRM
BAS-BCS-CRM 452/1				(0.0002)		0.094	0.031	0.054			100 g	CRM
BAS-BCS-CRM 453/1				(0.0001)		0.022	0.073	0.3			100 g	CRM
BAS-BCS-CRM 456/2	0.0015		0.0057	0.0189	0.0172				0.013		100 g	CRM
BAS-BCS-CRM 458/2	0.0069		0.0510	0.0140	0.089				(0.062)		100 g	CRM
BAS-BCS-CRM 459/2	0.011		0.0102	0.0044	0.0121				0.074		100 g	CRM
BAS-BCS-CRM 460/2	0.0027		0.068	0.0005	0.0006				<0.0005		100 g	CRM
BAS-BCS-CRM 461/1				(0.005)							100 g	CRM
BAS-BCS-CRM 462				0.0005							100 g	CRM
BAS-BCS-CRM 462/1											100 g	CRM
BAS-BCS-CRM 463	(0.0004)										100 g	CRM
BAS-BCS-CRM 463/1	0.0022	0.063									100 g	CRM
BAS-BCS-CRM 465/1	0.0006	0.01		(<0.001)			0.4				100 g	CRM
BAS-BCS-CRM 466/2	0.0039	0.0508	(0.001)	(<0.0001)		(<0.001)	(0.002)				100 g	CRM

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BAS - Chips / Powders

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	As	B
BAS-BCS-CRM 467/1	Austenitic Stainless Steels - chips/powder	0.082	0.52	0.788	0.018	0.019	18.09	9.21						0.004	
BAS-BCS-CRM 468/1	Austenitic Stainless Steels - chips/powder	0.143	1.41	1.7	0.014	0.02	17.96	8.9				0.018			
BAS-BCS-CRM 469	Ferritic Stainless Steels - chips/powder	0.279	0.421	0.598	0.015	0.02	11.93	0.246		(0.02)	(0.02)	(0.01)			
BAS-BCS-CRM 470	Ferritic Stainless Steels - chips/powder	0.153	0.335	0.235	0.024	0.035	17.68	0.369		(0.02)	(0.02)	(0.02)			
BAS-BCS-CRM 471	Ferritic Stainless Steels - chips/powder	0.095	0.326	0.417	0.018	0.023	23.85	0.96		(0.02)	(0.03)	(0.02)			
BAS-BCS-CRM 472	Ferritic Stainless Steels - chips/powder	0.227	1.05	1.02	0.032	0.029	15.82	1.95	0.661	(0.02)	(0.02)	(0.02)			
BAS-BCS-CRM 473	Ferritic Stainless Steels - chips/powder	0.172	0.604	0.494	0.019	0.03	9.06	(0.06)	0.95	(0.03)	(0.02)	(0.01)			
BAS-BCS-CRM 474	Stainless Steels - chips/powder	0.022	0.17	1.7	0.008	0.02	19.06	14.74	3.55	0.35	0.3	(0.02)		0.03	
BAS-BCS-CRM 475	Stainless Steels - chips/powder	0.05	0.21	0.89	0.037	0.008	14.14	5.66	1.59	1.94		0.22	0.013		
BAS-BCS-CRM 479	Niobium Stabilised Stainless Steel - chips/powder	0.0529	0.553	0.680	0.0029	0.0030	19.922	24.87	(0.003)	0.0052	0.0052	(0.002)	(0.013)	(0.002)	(<0.0005)
BAS-BCS-CRM 481	High Speed Steels - chips/powder	0.69	0.14	0.29	0.021	0.027	3.56		0.22		0.52	0.21			
BAS-BCS-CRM 482	High Speed Steels - chips/powder	0.70	0.13	0.28	0.021	0.021	4.09		0.27		0.98	0.24			
BAS-BCS-CRM 484	High Speed Steels - chips/powder	0.85	0.2	0.21	0.030	0.024	5.17		1.07		0.93	10.2			
BAS-BCS-CRM 483	High Speed Steels - chips/powder	0.67	0.11	0.29	0.019	0.025	3.21		0.17		0.54	1.94			
BAS-BCS-CRM 483/1	High Speed Tool Steel - chips/powder	0.67	0.16	0.29	0.019	0.025	3.21		0.17		0.54	1.94			
BAS-BCS-CRM 491	High Manganese Steels - chips/powder	0.92	0.9	16.1	0.026	0.012	1.45	0.05	0.6	(0.04)	(0.06)		0.042		
BAS-BCS-CRM 494	High Manganese Steels - chips/powder	1.24	0.26	13.6	0.04	0.005	0.56	0.69	0.078	(0.19)	(0.02)		0.004		
BAS-BCS-CRM 495	High Manganese Steels - chips/powder	0.82	0.46	13.6	0.036	0.014	1.93	1.05	0.035	(0.09)	(0.02)		0.103		
BAS-BCS-CRM 495/1	High Manganese Steels - chips/powder	0.81	0.58	13.13	0.054	0.026	1.93	1.13	0.109		0.02		0.170		

Analyte - Measured Values (continued)

Code	N	Nb	Pb	Sn	Ta	Ti	W		Size	Type
BAS-BCS-CRM 467/1		0.99	0.004		0.0017				100 g	CRM
BAS-BCS-CRM 468/1									100 g	CRM
BAS-BCS-CRM 469									100 g	CRM
BAS-BCS-CRM 470									100 g	CRM
BAS-BCS-CRM 471									100 g	CRM
BAS-BCS-CRM 472									100 g	CRM
BAS-BCS-CRM 473									100 g	CRM
BAS-BCS-CRM 474									100 g	CRM
BAS-BCS-CRM 475		0.22		0.015					100 g	CRM
BAS-BCS-CRM 479	0.0057	0.625				0.0306			100 g	CRM
BAS-BCS-CRM 481							14.2		100 g	CRM
BAS-BCS-CRM 482							18.1		100 g	CRM
BAS-BCS-CRM 484							22.4		100 g	CRM
BAS-BCS-CRM 483							10.8		100 g	CRM
BAS-BCS-CRM 483/1							10.8		100 g	CRM
BAS-BCS-CRM 491									100 g	CRM
BAS-BCS-CRM 494									100 g	CRM
BAS-BCS-CRM 495									100 g	CRM
BAS-BCS-CRM 495/1									100 g	CRM

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Dillinger Hütte - Chips / Powders

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Ce	Ag	Al(s)	As
DH-SE21-02	Unalloyed steel	0.147	0.2944	0.8221	0.0164	0.0012	0.2847	0.2825	0.0192	0.3503	0.0014	0.0034	0.0318	<0.0000			0.0043
DH-SE21-06	Unalloyed steel	0.1406				0.0277											
DH-SE21-10	Unalloyed steel	0.2035	0.5	1.483	0.0186	0.0169	0.023	0.0179	0.00249	0.056	0.0019	0.0042	0.0385				0.006
DH-SE21-14	Unalloyed steel	0.0827	0.05	0.704	0.0121	0.0103	0.0209	0.051	0.00668	0.0485	0.0081	0.0035	0.0465		0.00001		0.0056
DH-SE21-19	Unalloyed steel	0.1781	0.423	1.605	0.0133	0.0098	0.0127	0.433	0.00356	0.0184	0.144	0.0049	0.0486		<0.00001		0.0034
DH-SE21-22	Unalloyed steel	0.1599				0.0016											
DH-SE21-23	Unalloyed steel	0.335	0.232	1.237	0.0166	0.0104	0.0316	0.0209	0.00271	0.0172	0.0031	0.0035	0.0289				0.003
DH-SE21-27	Unalloyed steel	0.1087				0.00072											
DH-SE21-28	Unalloyed steel	0.593				0.0008											
DH-SE21-30	Unalloyed steel	0.0457	0.0304	0.324	0.0101	0.0279	0.0152	0.0215	0.003	0.0191	<0.001	0.0021	0.0624				0.0062
DH-SE21-31	Unalloyed steel	0.1964	0.181		0.0068	0.0232							0.0387				
DH-SE21-32	Unalloyed steel	0.166	0.411	1.609	0.0127	0.0094	0.0124	0.43	0.0035	0.0178	0.1465	0.0046	0.0485				0.0035
DH-SE21-35	Unalloyed steel	0.0502				0.0083											
DH-SE21-38	Unalloyed steel	0.1296	0.3966	1.04	0.0097	0.0009	0.1617	1.176	0.3431	0.6446	0.0021	0.0049	0.0322				0.002
DH-SE21-39	Unalloyed steel	0.151	0.454	1.576	0.0117	0.0052	0.0155	0.0232	0.0027	0.0299	0.111	0.0032				0.0319	0.0047
DH-SE21-40	Unalloyed steel	0.0362	0.0091	0.2912	0.0069	0.0127	0.0075	0.024	0.0018	0.0098	<0.002	0.0048	0.03				0.0035
DH-SE21-41	Unalloyed steel		0.4575	1.468										0.0265			
DH-SE21-44	Unalloyed steel	0.08	0.05	0.708	0.012	0.0103	0.0209	0.0506	0.0061	0.0488	0.008	0.0035	0.0459				0.006
DH-SE21-54	Unalloyed steel					0.0472											

Analyte - Measured Values (continued)

Code	B	Bi	Ca	In	N	Nb	Pb	Sb	Sn	Ta	Ti	Zn		Size	Type
DH-SE21-02	<0.0001	<0.0000	0.0012		0.0127	0.0329	<0.0001	0.0005	0.0006	<0.0001	0.001	0.0003		50 g	CRM
DH-SE21-06					0.0063									50 g	CRM
DH-SE21-10	0.00006		0.0003				0.00048	0.0008	0.00178		0.0014	0.00053		50 g	CRM
DH-SE21-14	<0.00004		<0.0001	<0.0001			0.00018	0.00078	0.00522		0.213	0.00067		50 g	CRM
DH-SE21-19	0.00008		<0.0002				0.00013	0.0004	0.00058		0.0009	0.00036		50 g	CRM
DH-SE21-22					0.0078									50 g	CRM
DH-SE21-23	0.0019		<0.0001				0.00008	0.00041	0.00062		0.0465	0.00044		50 g	CRM
DH-SE21-27					0.0103									50 g	CRM
DH-SE21-28					0.0036									100 g	CRM
DH-SE21-30			0.0001						<0.001					50 g	CRM
DH-SE21-31														50 g	CRM
DH-SE21-32			0.0001											50 g	CRM
DH-SE21-35					0.0019									50 g	CRM
DH-SE21-38		<0.0001	0.0017			0.0191	0.0001	0.0006	0.0007		0.0023	0.0001		50 g	CRM
DH-SE21-39			0.0014			0.0326	0.0503	0.0006	0.0014		0.001	0.0006		50 g	CRM
DH-SE21-40			0.0001				0.0001	0.0007	0.0005			0.0012		50 g	CRM
DH-SE21-41						0.0312								50 g	CRM
DH-SE21-44							0.0002	0.0007	0.0052		0.213	0.0005		50 g	CRM
DH-SE21-54														50 g	CRM

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Dillinger Hütte - Chips / Powders

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	As	Ca	N
DH-SE21-56	Unalloyed steel	0.00483				0.01515										
DH-SE21-61	Unalloyed steel	0.1843				0.0043										0.0186
DH-SE21-62	Unalloyed steel	0.0369				0.0007										0.0032
DH-SE21-63	Unalloyed steel	0.0036				0.0026										
DH-SE21-64	C, S and N in unalloyed steel	0.2062				0.0135										0.0065
DH-SE21-65	Unalloyed steel	0.0399				0.0195										0.0059
DH-SE21-72	Unalloyed steel	0.1611				0.0147										
DH-SE21-75	Unalloyed steel	0.1290				0.0181										
DH-SE21-79	Unalloyed steel	0.0232														
DH-SE21-84	Unalloyed steel	0.4433				0.0152										
DH-SE21-93	Unalloyed steel	0.074	0.314	1.471	0.00273	0.0008	0.0144	0.0743	0.0668	0.0463	0.0329	0.0033	0.0396	0.0022	0.0023	
DH-SE21-94	Unalloyed steel	0.0396	0.2733	1.3431	0.0091	<0.0006	0.0333	0.035	0.0055	0.0174	0.0351	0.0035	0.0436	0.0023	0.001	
DH-SE21-161	Nitrogen in unalloyed steel															0.0084
DH-SE22-01	Unalloyed steel	0.1492				0.0048										
DH-SE22-03	Unalloyed steel	0.1658	0.419	1.6015	0.0126	0.0089	0.0128	0.4342	0.0036	0.018	0.1414	0.0046	0.0653	0.0027	<0.0001	
DH-SE22-041	C, S and N in unalloyed steel	0.0469				0.0277										0.0035
DH-SE22-08	Unalloyed steel	0.4843	0.2616	0.8406	0.0144	0.0013	0.9596	0.0416	0.0105	0.0202	0.1325	0.0037	0.0271	0.004	0.0026	
DH-SE22-10	Unalloyed steel	0.0648	0.0872	1.4783	0.013	0.0034	0.0344	0.2443	0.0162	0.1035	0.0014	0.0031	0.0439	0.0019	0.0003	
DH-SE21-961	C, S and N in unalloyed steel	0.0609				0.0006										0.0034

Analyte - Measured Values (continued)

Code	Nb	Pb	Sb	Sn	Ti	Zn	Zr		Size	Type
DH-SE21-56									100 g	CRM
DH-SE21-61									50 g	CRM
DH-SE21-62									50 g	CRM
DH-SE21-63									50 g	CRM
DH-SE21-64									100 g	CRM
DH-SE21-65									100 g	CRM
DH-SE21-72									50 g	CRM
DH-SE21-75									50 g	CRM
DH-SE21-79									50 g	CRM
DH-SE21-84									50 g	CRM
DH-SE21-93	0.0002	<0.0001	0.0006	0.0056	0.0011				50 g	CRM
DH-SE21-94	0.0329	0.0001	0.0004	0.0005	0.0017	0.0004			50 g	CRM
DH-SE21-161									100 g	CRM
DH-SE22-01									50 g	CRM
DH-SE22-03	0.0001	0.0004	0.0004	0.0008	0.0008				50 g	CRM
DH-SE22-041									100 g	CRM
DH-SE22-08	0.0005		0.0005	0.0004	0.0018				50 g	CRM
DH-SE22-10	0.0212		0.0005	0.0005	0.0164		0.0071		50 g	CRM
DH-SE21-961									100 g	CRM

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Dillinger Hütte - Chips / Powders

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Ce	Mg	Ag	As
DH-SE23-03	Alloy steel	0.1671	0.577	1.744	0.0151	0.0112							0.05				0.003
DH-SE23-09	Alloy steel	0.0438	0.2006	2.031	0.0168	0.00078	0.029	0.026	0.3203	0.0083	0.0075	0.0044	0.0021				0.0019
DH-SE23-12	Alloy steel	0.09	0.458	1.593	0.0159	0.0023	1.938	1.17	0.203	0.011	0.121	0.0057	0.0255				
DH-SE23-14	Alloy steel	0.061	0.164	0.392	0.0058	0.0011	0.01	5.39	0.054	0.005	<0.001	0.0047	0.0014				
DH-SE23-15	Alloy steel	0.1103	0.514	0.435	0.0887	0.0117	1.049	0.498	0.0082	0.479	0.004	0.0049	0.0299				0.0029
DH-SE23-17	Alloy steel	0.0795				0.0014											
DH-SE23-18	Alloy steel	0.0793															
DH-SE23-19	Alloy steel	0.0539	0.2347	0.5907	0.0079	0.0006	0.02	9.314	0.073	0.017	0.0017	0.0066	0.043				0.0036
DH-SE23-21	Alloy steel	0.151	0.3044	1.4617	0.0141	0.0009	0.9176	1.3402	0.513	0.0198	0.0213	0.006	0.043				0.0021
DH-SE23-22	Alloy steel	0.0609				0.0009											
DH-SE23-26	Alloy steel	0.0637				0.0013											
DH-SE23-27	Alloy steel	0.0801	0.3886	1.7182	0.018	0.0015	0.0328	0.8964	0.2785	1.3256	0.0037	0.0052	0.0217				0.0025
DH-SE23-29	Alloy steel	0.168	0.257	0.3219	0.0065	0.00067	1.7057	2.3865	0.4126	0.0216	0.0025	0.005	0.0436				0.002
DH-SE23-33	Alloy steel	0.3876				0.0585											
DH-SE23-201	Alloy steel	0.0800				0.0027											
DH-SE23-221	Alloy steel	0.0622				0.0007											
DH-SE24-01	High alloy steel	0.0048	0.0222	0.0203	0.0013	0.0026	0.0405	18.85	4.64	0.0161	0.0029	11.46	0.1013				0.0038
DH-SE26-10	High purity iron	0.00038	<0.0005	0.0022	<0.0002	<0.0004	0.00132	0.00049	0.00007	0.00074	<0.00003	<0.0001	0.00023	<0.00001	<0.0001	<0.0002	<0.00004
DH-SE47-21	BCS Qualitätsstahl (C,S and N)	0.7703				0.0269											

Analyte - Measured Values (continued)

Code	B	Bi	Ca	Cd	In	N	Nb	Pb	Sb	Sn	Ta	Te	Ti	Tl	W	Zn	Zr	Size	Type
DH-SE23-03																		50g	CRM
DH-SE23-09	0.0026	<0.00005	0.0016				0.0558	0.00004	0.0005	0.0009			0.0163			<0.0002		50g	CRM
DH-SE23-12	0.00005		0.0013					0.0002	0.0005	0.0003						0.0007		50g	CRM
DH-SE23-14			0.0034					0.0001	0.0008	0.0002						0.0005		50g	CRM
DH-SE23-15			0.0001					0.0002	0.0004	0.0005						0.0007		50g	CRM
DH-SE23-17																		50g	CRM
DH-SE23-18																		50g	CRM
DH-SE23-19			0.0016				0.0003	0.0003	0.0005	0.0005			0.0018			0.0004		50g	CRM
DH-SE23-21	0.0035	<0.0000	<0.0019			0.0041	0.0004	0.0001	0.0005	0.0009			0.0038					50g	CRM
DH-SE23-22																		50g	CRM
DH-SE23-26																		50g	CRM
DH-SE23-27	<0.00014	<0.00007	0.0051			0.0143	0.0906	0.0007	0.00049	0.0028			0.001					50g	CRM
DH-SE23-29	<0.00009	<0.00002	0.0027			0.0045	0.00097	<0.00007	0.00053	0.00052			0.0027					50g	CRM
DH-SE23-33																		50g	CRM
DH-SE23-201						0.0120												50g	CRM
DH-SE23-221						0.0031												50g	CRM
DH-SE24-01			0.0002				0.0023	<0.0001	0.0003	0.0016			1.28					50g	CRM
DH-SE26-10	<0.0001	<0.00001	<0.0003	<0.00001	<0.00001	0.00026	<0.00003	<0.00001	<0.00003	0.00004	<0.00002	<0.00001	0.00005	<0.00001	<0.00006	0.00014	<0.00002	50g	CRM
DH-SE47-21						0.0015												100g	CRM

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Thyssen - Chips / Powders

Code	Description	Analyte - Measured Values C	S	N		Size	Type
TH 1006-4	C + S + N in Steel: C 0.952 %, S 0.0111 %, N 0.0046 %	0.952	0.0111	0.0046		100 g	RM
TH 1012-5	C + S + N in Pure iron: C 0.0026 %, S 0.0044 %, N 0.0025 %	0.0026	0.0044	0.0025		100 g	RM
TH 1013-2	C + S + N in Steel: C 0.384 %, S 0.0344%, N 0.0142 %	0.384	0.0344	0.0142		100 g	RM
TH 1017-2	C + S + N in Steel: C 0.0146 %, S 0.0004%, N 0.0031 %	0.0146	0.0004	0.0031		100 g	RM
TH 1018-2	C + S + N in Steel: C 0.573 %, S 0.0019%, N 0.0065 %	0.573	0.0019	0.0065		100 g	RM
TH 1019-4	C + S + N in Steel: C 0.02 %, S 0.0133%, N 0.0046 %	0.02	0.0133	0.0046		100 g	RM
TH 1027-2	C + S + N in Steel: C 0.726 %, S 0.0092%, N 0.003 %	0.726	0.0092	0.003		100 g	RM
TH 1028-4	C + S in pig-iron: C 4.303%, S 0.0044 %	4.303	0.0044			100 g	RM
TH 1036-2	C + S + N in Steel: C 0.0791 %, S 0.321%, N 0.0034 %	0.0791	0.321	0.0034		100 g	RM
TH 1039-2	C + S + N in Steel: C 0.0352 %, S 0.0222%, N 0.0027 %	0.0352	0.0222	0.0027		100 g	RM
TH 1040-3	C + S + N in Steel, cast: C 0.05 %, S 0.0041%, N 0.0017 %	0.05	0.0041	0.0017		100 g	RM
TH 1041	C + S in Steel, cast: C 0.0925 %, S 0.01%	0.0925	0.01			100 g	RM
TH 1042-3	C + S + N in Steel: C 0.079 %, S 0.0231%, N 0.0091 %	0.079	0.0231	0.0091		100 g	RM
TH 1045-4	C + S + N in Steel	0.0025	0.0041	0.0048		100 g	RM
TH 1049-2	C + S in pig-iron: C 4.823%, S 0.0022 %	4.823	0.0022			100 g	RM
TH 1050	C + S in pig-iron: C 3.424%, S 0.1432 %	3.424	0.1432			100 g	RM
TH 1069	C + S + N in Steel: C 0.0148 %, S 0.0129 %, N 0.0043 %	0.0148	0.0129	0.0043		100 g	RM

JK - Chips / Powders

Code	Description	Analyte - Measured Values C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Ce	B	N
JK 3B	Unalloyed Steel Chips	0.742	0.251	0.803	0.0101	0.0071	0.0529	0.0591	0.0051	0.0175	0.002	0.0048	0.0036			0.0054
JK 7B	Low Alloy Steel Chips	0.342	0.267	0.697	0.0057	0.0064	1.34	1.34	0.182	0.021	0.004		0.014			0.005
JK 12A	Tool Steel Chips	0.886	0.30	0.312	0.02	0.023	4.04	0.191	4.85	0.062	1.94	0.189				0.0259
JK 20A	Unalloyed Steel Chips	1.263				0.0094					0.161					0.0027
JK 21	Low alloyed steel (Nb-alloyed) chips	0.1741	0.36	1.46	0.0148	0.011	0.024	0.035	0.004	0.045	0.002	0.008	0.032			0.008
JK 25	Stainless Steel Chips			1.7			22.3	11.3	0.1					0.096		
JK 36	Stainless Steel Chips	0.0125				0.0126										0.0337
JK 37(C)	Stainless Steel, high alloyed	0.0133	0.141	1.73	0.016	0.0009	26.72	30.82	3.55	0.936		0.058		0.123	0.0012	0.0344

Code	Analyte - Measured Values (continued) Nb	Pb	Sn	Ti	W		Size	Type
JK 3B			0.0044				150 g	CRM
JK 7B							150 g	CRM
JK 12A		0.0004	0.007		6.42		150 g	CRM
JK 20A		0.16			1.75		150 g	CRM
JK 21	0.0175		0.006	0.0008			150 g	CRM
JK 25							150 g	CRM
JK 36							150 g	CRM
JK 37(C)							150 g	CRM

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IPT - Chips / Powders

		Analyte - Measured Values															
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	N	Pb	Size	Type
IPT-11A	Plain Carbon Steel (AISI 1020)	0.205	0.03	0.439	0.009	0.011	0.121	0.079	0.01	0.013	0.003		0.153			100 g	CRM
IPT-12A	Low Alloy Steel (AISI 8640)	0.435	0.348	0.908	0.012	0.009	0.528	0.508	0.172	0.082						100 g	CRM
IPT-13A	Plain Carbon Steel (AISI 1060)	0.573	0.26	0.723	0.011	0.014	0.098	0.065	0.018	0.076			0.027			100 g	CRM
IPT-14A	Plain Carbon Steel (AISI 1040)	0.415	0.292	0.699	0.029	0.036	0.1	0.104	0.029	0.278			0.009			100 g	CRM
IPT-16A	Low Alloy Steel (AISI 8620)	0.212	0.287	0.82	0.019	0.018	0.493	0.559	0.201	0.053			0.016			100 g	CRM
IPT-17A	Low Alloy Steel (AISI 4340)	0.415	0.26	0.724	0.014	0.021	0.82	1.76	0.259	0.074		0.039				100 g	CRM
IPT-22	Stainless Steel (AISI 440A)	0.628	0.449	0.804	0.029	0.009	16.21	0.143		0.05				0.008		100 g	CRM
IPT-24A	Stainless Steel (AISI 316)	0.048	0.51	1.53	0.035	0.02	17.37	11.12	2.47	0.32		0.16		0.036		100 g	CRM
IPT-25	Low Alloy Steel (AISI 4140)	0.4	0.222	0.902	0.012	0.007	1.01	0.072	0.28	0.04						100 g	CRM
IPT-26	Stainless Steel (AISI 420)	0.201	0.306	0.713	0.022	0.012	13.69	0.413	0.07	0.029						100 g	CRM
IPT-29A	Low Alloy Steel (Ni-Cr-Mo)	0.614	0.372	0.565	0.012	0.0076	0.845	0.794	0.276	0.012	0.08		0.028	0.0039		100 g	CRM
IPT-31	Low Alloy Steel (AISI 6150)	0.497	0.146	0.794	0.021	0.009	1.15	0.106		0.251	0.25		0.087			100 g	CRM
IPT-33	Low Alloy Steel (AISI 5160)	0.603	0.133	0.772	0.011	0.007	0.793	0.059		0.036			0.099			100 g	CRM
IPT-36	Low Alloy Steel (Cr-Mo-Al)	0.315	0.291	0.43	0.016	0.004	1.25	0.217	0.201	0.129			0.86			100 g	CRM
IPT-39	Plain Carbon Steel (AISI 1005)	0.048	0.061	0.34	0.021	0.034	0.084	0.048	0.012	0.019			0.169			100 g	CRM
IPT-41B	Plain Carbon Steel 12L14 (high sulfur)	0.072	0.022	1.08	0.057	0.322	0.037	0.012		0.005					0.22	100 g	CRM

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IPT - Chips / Powders

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	B	N	Nb	Sn	Ti
IPT-47	Low Alloy Steel (Nb 0,03%)	0.122	0.273	0.959	0.013	0.02	0.573	0.221		0.245						0.032		
IPT-50	Tool Steel (AISI M2)	0.916	0.232	0.28	0.031	0.015	4.49	0.33	5.54	0.091	2	0.26						
IPT-55	Plain Carbon Steel (AISI 1080 modified)	0.837	0.24	0.923	0.023	0.027	0.215	0.174	0.099	0.187			0.093					
IPT-60A	Plain Carbon Steel (0,7% C)	0.715				0.012												
IPT-67	Tool Steel (10% Co 4% Mo 8% W)	1.27	0.26	0.256	0.036	0.007	4.33	0.32	4.39	0.092	2.58	9.79						
IPT-71	Plain Carbon Steel (AISI 10B40)	0.406	0.541	1.04	0.017	0.025	0.174	0.085	0.018	0.125			0.038	0.0084				
IPT-93	Plain Carbon Steel (AISI 15B13)	0.14	0.261	1.02	0.036	0.028	0.104	0.053	0.013	0.129			0.045	0.0022				0.034
IPT-96	Low Alloy Steel (ASTM A 242)	0.109	0.286	0.845	0.017	0.0049	0.614	0.018		0.272		0.0048	0.041		0.0092	0.0072		
IPT-97	Low alloy steel	0.165	0.231	1.11	0.015	0.026	1.22	0.227	0.064	0.129	0.024	0.012	0.028	0.0022	0.0119	0.023		0.002
IPT-98	Stainless Steel (Cr-Ni-Mo-Ti)	0.05	0.26	1.88	0.042	0.016	16.75	11.01	1.92	0.292	0.053	0.125	0.073		0.0112		0.019	0.41
IPT-100	Low Alloy Steel (Cr-Ni-Mo-V)	0.462	0.188	0.755	0.016	0.019	1.08	0.524	0.94	0.053	0.117	0.006	0.029		0.0075			
IPT-108	Low Alloy Steel (AISI 9260)	0.598	1.96	0.861	0.028	0.02	0.133	0.052	0.017	0.121		0.006	0.019					0.004
IPT-114	Tool Steel (Cr-Mo-V)	0.388	1.02	0.361	0.021	0.0023	5.2	0.165	1.29	0.064	0.89	0.018	0.028					
IPT-117	Tool Steel (Ni-Cr)	0.515	0.349	0.557	0.019	0.011	1.03	3.01	0.292	0.07	0.015	0.014	0.026					
IPT-142	Low Alloy Steel (AISI 8630)	0.304	0.242	0.801	0.022	0.025	0.505	0.421	0.179	0.226		0.008	0.029		0.0133	0.02		
IPT-145	Tool Steel (DIN WNr. 1.2714)	0.558	0.259	0.716	0.016	0.011	1.14	1.61	0.494	0.051	0.094	0.024	0.023					

Analyte - Measured Values (continued)

Code	Tl	W	Size	Type
IPT-47			100 g	CRM
IPT-50		6.4	120 g	CRM
IPT-55			100 g	CRM
IPT-60A			100 g	CRM
IPT-67		8.03	100 g	CRM
IPT-71			100 g	CRM
IPT-93			100 g	CRM
IPT-96			120 g	CRM
IPT-97			100 g	CRM
IPT-98		0.053	100 g	CRM
IPT-100	0.0012		100 g	CRM
IPT-108			100 g	CRM
IPT-114		0.174	100 g	CRM
IPT-117		0.06	100 g	CRM
IPT-142			100 g	CRM
IPT-145			100 g	CRM

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IMZ - Chips / Powders

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Al	Al(s)	As	Ca	N	Nb	Pb
IMZ-110C	Low Alloy Steel, chips	0.011	0.009	0.015	0.008	0.01	0.007	0.019	0.025	0.051	0.002	0.008	0.003			0.0058		0.001
IMZ-111C	Low Alloy Steel, chips	0.106	0.55	0.31	0.01	0.039	0.072	0.23	0.084	0.036	0.022	0.017	0.007		0.0003	0.0133		
IMZ-112C	Low Alloy Steel, chips	0.195	0.27	0.43	0.022	0.016	0.034	0.046	0.043	0.055	0.045	0.034	0.024			0.01	0.013	
IMZ-113C	Low Alloy Steel, chips	0.24	0.1	0.5	0.022	0.025	1.25	0.13	0.05	0.11	0.039	0.007	0.004			0.0154		
IMZ-114C	Low Alloy Steel, chips	0.35	0.33	1.16	0.024	0.021	0.42	0.1	0.11	0.51	0.096	(0.029)	0.018		(0.0002)	0.0142		0.033
IMZ-115C	Low Alloy Steel, chips	0.36	0.043	0.65	0.045	0.024	0.27	0.35	0.07	0.25	(0.063)	(0.015)	(0.0058)			0.0087	0.09	
IMZ-116C	Low Alloy Steel, chips	0.64	0.25	0.94	0.025	0.035	0.72	0.022	0.074	0.33	0.076	0.025	0.012			0.013		
IMZ-117C	Low Alloy Steel, chips	0.49	0.34	0.77	0.038	0.015	0.94	0.29	0.024	0.41	0.087	0.023	0.013		(0.0002)	0.0154	0.041	
IMZ-118C	Low Alloy Steel, chips	0.69	0.3	1.72	0.026	(0.049)	0.14	0.19	0.058	0.18	0.059	(0.014)	(0.004)		(0.0002)	0.012		
IMZ-119C	Low Alloy Steel, chips	0.93	0.16	1.15	0.018	0.006	0.062	0.049		0.042	0.006	0.01	0.007		(0.0002)	0.0086		
IMZ-120C	Free Cutting Steel, chips	0.6	0.34	0.4	(0.049)	0.026	0.2	0.085		0.1		0.033		0.065		0.0115		0.077
IMZ-121C	Free Cutting Steel, chips	0.39	(0.056)	1.18	0.057	0.097	0.036	0.029		0.032		0.016		0.002		0.0125		0.011
IMZ-122C	Free Cutting Steel, chips	0.27	0.43	1.33	0.073	0.21	0.19	0.25		0.25		(0.027)		0.007		0.011		(0.02)
IMZ-123C	Free Cutting Steel, chips	0.25	0.23	1.57	0.03	0.38	0.16	0.057		0.093		0.032		0.033		0.0171		0.03
IMZ-124C	Free Cutting Steel, chips	0.1	(0.019)	0.6	0.082	0.28	0.11	0.046		0.06		0.005		0.004		0.0059		(0.002)

Analyte - Measured Values (continued)

Code	Sb	Sn	Ti		Size	Type
IMZ-110C	0.014	0.026			100 g	CRM
IMZ-111C					100 g	CRM
IMZ-112C		0.15	0.01		100 g	CRM
IMZ-113C					100 g	CRM
IMZ-114C	(0.006)	0.008	(0.005)		100 g	CRM
IMZ-115C					100 g	CRM
IMZ-116C			(0.0008)		100 g	CRM
IMZ-117C			(0.0014)		100 g	CRM
IMZ-118C		0.22			100 g	CRM
IMZ-119C			(0.0007)		100 g	CRM
IMZ-120C	0.031	0.008			100 g	CRM
IMZ-121C	0.017	0.059			100 g	CRM
IMZ-122C	0.019	0.12			100 g	CRM
IMZ-123C	0.03	(0.007)			100 g	CRM
IMZ-124C	0.002	0.009			100 g	CRM

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IMZ - Chips / Powders

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	As	Ca	N	Sb
IMZ-125C	Free Cutting Steel, chips	0.029	0.15	0.95	(0.018)	(0.057)	0.18	0.023		0.044			(0.007)	0.065			0.014
IMZ-130C	Low Alloy Steel, chips												0.0046		0.0024	0.0153	
IMZ-131C	Low Alloy Steel, chips												0.0046		0.0024	0.0153	
IMZ-132C	Low Alloy Steel, chips												0.0021		0.0002	0.0097	
IMZ-133C	Low Alloy Steel, chips															0.036	
IMZ-134C	Low Alloy Steel, chips												0.0124		0.0005	0.0238	
IMZ-135C	Low Alloy Steel, chips												0.0274		0.0008	0.0238	
IMZ-136C	Low Alloy Steel, chips												0.0034		0.00031		
IMZ-137C	Low Alloy Steel, chips												0.0017		0.00025	0.0083	
IMZ-138C	Low Alloy Steel, chips												0.0022			0.0063	
IMZ-139C	Low Alloy Steel, chips												(0.029)		0.0031	0.0113	
IMZ-140C	Low Alloy Steel, chips												0.0307		0.0015	0.0083	
IMZ-141C	Low Alloy Steel, chips												0.0071			0.0154	
IMZ-152C	High Alloy Steel, chips	0.065	0.52	1.42	0.01	0.0025	18.04	9.48	0.017	0.061	0.03						
IMZ-154C	High Alloy Steel, chips	0.076	0.89	2.18	0.04	0.16	17.71	9.86	2.58	0.33	0.073	0.105	(0.16)				

Analyte - Measured Values (continued)

Code	Sn	Ti	Size	Type
IMZ-125C	0.002		100 g	CRM
IMZ-130C			100 g	CRM
IMZ-131C			100 g	CRM
IMZ-132C			100 g	CRM
IMZ-133C			100 g	CRM
IMZ-134C			100g	CRM
IMZ-135C			100g	CRM
IMZ-136C			100g	CRM
IMZ-137C			100g	CRM
IMZ-138C			100g	CRM
IMZ-139C			100g	CRM
IMZ-140C			100g	CRM
IMZ-141C			100 g	CRM
IMZ-152C			100 g	CRM
IMZ-154C		1.0	100 g	CRM

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IMZ - Chips / Powders

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	As	N	Nb	Pb
IMZ-155C	High Alloy Steel, chips	0.078	0.49	0.84	0.018	0.012	11.07	0.77	0.056	0.084	0.045		(0.2)				
IMZ-156C	High Alloy Steel, chips	0.101	1.11	0.84	0.031	0.008	16.96	0.64	0.035	0.071	0.073	(0.033)	(0.034)				
IMZ-157C	High Alloy Steel, chips	0.095	0.59	0.63	0.015	0.01	9.51	0.5	0.71	0.066	0.26		0.26		0.051		
IMZ-158C	High Alloy Steel, chips	0.091	2.23	1.34	0.015	0.007	25.51	0.24	0.025	0.097	0.078		1.56				
IMZ-159C	High Alloy Steel, chips	0.075	0.33	0.39	0.022	0.005	2.64	0.31	0.98	0.41	0.1		0.024				
IMZ-160C	High Alloy Steel, chips	0.077	0.34	0.38	0.023	0.004	2.64	0.3	0.98	0.42	0.1		0.031				
IMZ-161C	High Alloy Steel, chips	0.074	0.65	0.29	0.023	0.023	12.9	0.55	1.1	0.56	0.33						
IMZ-162C	High Alloy Steel, chips	0.19	0.59	1.31	0.021	0.014	0.91	1.64	0.52	0.077	0.045		(0.04)				
IMZ-163AC	High Alloy Steel, chips	0.058	0.39	1.38	0.018	0.01	22.62	4.59	2.4	0.061	0.029	(0.02)	0.018	(0.0035)	0.221	0.13	(0.001)
IMZ-164C	High Alloy Steel, chips	0.1	0.82	1.77	0.019	0.002	20.96	6.75	3.48	0.26	0.053	0.035	0.04	(0.005)	0.249	0.049	(0.002)
IMZ-165C	High Alloy Steel, chips	0.082	1.42	0.98	0.017	0.007	23.28	19.01	0.025	0.04	0.042	0.029	0.038	(0.003)	0.105		(0.001)
IMZ-166AC	High Alloy Steel, chips	0.108	2.51	1.99	0.019	0.005	25.53	21.93	(0.025)	0.025	0.038	0.03	0.036	(0.0026)	0.077		
IMZ-167C	High Alloy Steel, chips	0.175	0.755	1.16	0.016	0.0025	13.07	0.16	0.024	0.106	0.054	(0.021)	(0.018)		0.053		
IMZ-168C	High Alloy Steel, chips	0.24	1.12	1.36	0.019	0.012	13.91	0.17	0.026	0.093	0.053	(0.019)	(0.004)		(0.057)		
IMZ-169C	High Alloy Steel, chips	0.099	0.35	0.54	0.015	0.0155	2.2	0.073	1.03	0.128	(0.016)	0.012	0.075		0.0193	(0.0045)	(0.001)

Analyte - Measured Values (continued)

Code	Sn	Ti	W		Size	Type
IMZ-155C		0.19	(0.095)		100 g	CRM
IMZ-156C		(0.032)			100 g	CRM
IMZ-157C		0.044			100 g	CRM
IMZ-158C		0.12			100 g	CRM
IMZ-159C			0.26		100 g	CRM
IMZ-160C			0.26		100 g	CRM
IMZ-161C			1.05		100 g	CRM
IMZ-162C		0.12			100 g	CRM
IMZ-163AC	(0.003)	(0.002)	(0.016)		100 g	CRM
IMZ-164C	(0.003)	(0.003)	(0.025)		100 g	CRM
IMZ-165C	0.003	(0.002)			100 g	CRM
IMZ-166AC	(0.0035)	0.003			100 g	CRM
IMZ-167C	0.009	(0.002)			100 g	CRM
IMZ-168C	0.009	(0.003)			100 g	CRM
IMZ-169C	0.062	0.001			100 g	CRM

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IMZ - Chips / Powders

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	As	C(t)	N	Nb
IMZ-170C	High Alloy Steel, chips	0.155	0.32	0.5	0.018	0.014	8.82	0.63	0.88	0.285	0.24	(0.022)	0.11			0.065	0.087
IMZ-171C	High Alloy Steel, chips	0.195	0.21	0.42	0.02	0.014	11.44	0.59	1.23	0.116	0.26	0.024	0.036			0.057	
IMZ-172C	Tool Steel, chips	1.03	0.21	0.71	0.018	0.047	4.47	0.12	0.96	0.128	0.2	0.012	0.062			0.0192	
IMZ-173C	Tool Steel, chips	0.3	1.15	0.43	0.029	0.02	5.52	0.42	1.5	0.32	0.47	(0.013)	0.06			0.0342	
IMZ-174C	Tool Steel, chips	0.33	0.93	0.32	0.029	0.023	5.1	0.13	1.24	0.17	0.98	0.011	0.08			0.0288	
IMZ-175C	Tool Steel, chips	0.099	0.22	0.25	0.016	0.004	0.515	3.12	0.025	0.13	0.014	(0.013)	0.043			0.0099	
IMZ-176AC	Tool Steel, chips	0.15	0.35	0.75	0.018	0.003	0.41	3.62	0.027	0.103	(0.061)	(0.01)	(0.058)			0.0129	
IMZ-177C	Tool Steel, chips	0.076	0.24	0.32	0.013	0.003	0.18	8.33	0.022	0.11	0.01	(0.017)	0.043			0.0089	
IMZ-178C	Tool Steel, chips	0.29	0.28	0.65	0.016	0.003	1.26	2.09	0.2	0.14	0.011	0.015	0.051			0.016	0.105
IMZ-179C	Tool Steel, chips	0.114	0.375	0.83	0.016	0.003	0.2	9.98	0.12	0.164	0.023	0.016	0.061	(0.007)		0.0108	(0.004)
IMZ-190	Transformer Steel, chips	0.03	(3.11)			0.022											
IMZ-191	Transformer Steel, chips	0.018	(3.10)			0.022											
IMZ-192	Transformer Steel, chips	0.0064	(3.22)			0.0043											
IMZ-195	Low Alloy Steel, chips	0.17	0.29	1.18	0.01	0.008	0.026	0.18	0.076	0.11	(0.005)				(0.017)	0.0061	

Analyte - Measured Values (continued)

Code	Sb	Sn	Ti	W	Size	Type
IMZ-170C	(0.002)	0.007	(0.002)	(0.19)	100 g	CRM
IMZ-171C	(0.003)	0.008	(0.001)		100 g	CRM
IMZ-172C		0.01	(0.002)	0.011	100 g	CRM
IMZ-173C		0.012	(0.002)	0.1	100 g	CRM
IMZ-174C		0.01	(0.001)	0.021	100 g	CRM
IMZ-175C		0.011		(0.019)	100 g	CRM
IMZ-176AC		0.009		(0.015)	100 g	CRM
IMZ-177C		0.008			100 g	CRM
IMZ-178C		0.011		0.017	100 g	CRM
IMZ-179C		0.01		(0.023)	100 g	CRM
IMZ-190					100 g	CRM
IMZ-191					100 g	CRM
IMZ-192					100 g	CRM
IMZ-195			(0.012)		100 g	CRM

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IMZ - Chips / Powders

Analyte -Measured Values

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IMZ-1-1-8	1.1/8 - Low Alloy Steel, chips	0.12	0.23	0.53	0.012	0.026	0.040	0.036		0.080							
IMZ-1-2-9	1.2/9 - Low Alloy Steel, chips	0.41	0.23	0.66	0.025	0.029	0.18	0.071		0.11							
IMZ-1-3-8	1.3/8 - Low Alloy Steel, chips	0.85	0.22	0.51	0.012	0.02	0.028	0.035		0.06						(0.0050)	
IMZ-1-4-4	1.4/4 - Low Alloy Steel, chips	1.21	0.23	0.23	0.013	0.024	0.09	0.049		0.049							
IMZ-1-5-5	1.5/5 - Low Alloy Steel, chips	0.19	0.18	0.58	0.02	0.03	0.04	0.023		0.041							
IMZ-1-6-4	1.6/4 - Low Alloy Steel, chips	0.146	0.3	1.03	0.112	0.114	0.06	0.062		0.129			0.041				
IMZ-1-7-4	1.7/4 - Low Alloy Steel, chips	0.017	(0.005)	0.13	0.013	0.032	0.004	0.012	0.0017	0.016	0.001	0.0022	0.004	0.0045		0.0044	0.001
IMZ-1-8-4	1.8/4 - Low Alloy Steel, chips	0.35	1.31	0.99	0.02	0.018	1.18	0.16		0.11							
IMZ-1-9-3	1.9/3 - Low Alloy Steel, chips	0.38	0.28	0.55	0.025	0.016	1.3	1.62	0.16	0.101							
IMZ-1-10-2	1.10/2 - Low Alloy Steel, chips	0.39	0.24	0.48	0.020	0.013	1.46	0.17	0.20	0.076					0.82		
IMZ-1-11-3	1.11/3 - Low Alloy Steel, chips	0.35	0.18	0.48	0.025	0.02	1.0	0.12	0.19	0.077							
IMZ-1-12-4	1.12/4 - Low Alloy Steel, chips	0.084	0.3	1.47	0.04	0.013	17.41	10.14	0.196								
IMZ-1-13-3	1.13/3 - Low Alloy Steel, chips	0.33	0.23	0.38	0.023	0.007	2.61	1.52	0.13		0.29						
IMZ-1-14-4	1.14/4 - Low Alloy Steel, chips	0.83	0.35	0.33	0.028	(0.005)	4.09	0.16	0.45		1.23						
IMZ-1-18-5	1.18/5 - Low Alloy Steel, chips	0.2	0.44	1.43	0.023	0.03	0.073	0.077		0.11					0.098	0.0051	

Analyte - Measured Values (continued)

Code	Sn	Ti	W		Size	Type
IMZ-1-1-8					100 g	CRM
IMZ-1-2-9					100 g	CRM
IMZ-1-3-8					100 g	CRM
IMZ-1-4-4					100 g	CRM
IMZ-1-5-5					100 g	CRM
IMZ-1-6-4					100 g	CRM
IMZ-1-7-4	0.0021	0.001			100 g	CRM
IMZ-1-8-4					100 g	CRM
IMZ-1-9-3					100 g	CRM
IMZ-1-10-2					100 g	CRM
IMZ-1-11-3					100 g	CRM
IMZ-1-12-4		0.52			100 g	CRM
IMZ-1-13-3			8.31		100 g	CRM
IMZ-1-14-4			17.3		100 g	CRM
IMZ-1-18-5					100 g	CRM

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IMZ - Chips / Powders

Analyte - Measured Values

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IMZ-1-19-2	1.19/2 - Low Alloy Steel, chips	0.2	0.3	1.0	0.02	0.017	1.1	0.096		0.11						
IMZ-1-21-1	1.21/1 - Low Alloy Steel, chips	0.058	1.29	0.16	0.013	0.024	0.037	0.056		0.068		0.019		0.005	0.0039	0.0025
IMZ-1-22-1	1.22/1 - Low Alloy Steel, chips	0.09	2.02	0.24	0.019	0.026	0.045	0.039		0.071		0.02		0.014	0.0039	0.0028
IMZ-1-25-3	1.25/3 - Low Alloy Steel, chips	1.48	0.28	0.26	0.018	0.025	0.48				0.29					
IMZ-1-26-2	1.26/2 - Low Alloy Steel, chips	0.31	0.29	0.48	0.021	0.009	1.87	4.05	0.11	0.14						
IMZ-1-30	1.30 - Low Alloy Steel, chips												0.0002			
IMZ-1-31	1.31 - Low Alloy Steel, chips	0.14	0.31	0.81	0.022	(0.025)	0.55	0.87	0.5	0.33	(0.10)		0.0013			
IMZ-1-32	1.32 - Low Alloy Steel, chips	0.12	(0.21)	0.8	0.018	0.016	0.55	0.83	0.53	0.37	(0.093)		0.0021			
IMZ-1-33	1.33 - Low Alloy Steel, chips	0.14	0.26	0.69	(0.022)	(0.014)	0.52	0.88	0.51	0.43	(0.0087)		0.0057			
IMZ-1-34	1.34 - Low Alloy Steel, chips	0.11	0.31	0.84	0.014	(0.030)	0.73	0.65	0.39	(0.05)	(0.005)		0.0084			
IMZ-1-71-1	1.71/1 - Low Alloy Steel, chips	0.19	0.21	0.5	0.017	0.024	0.032	0.077	0.039	0.041	0.01			0.012		

Analyte - Measured Values (continued)

Code	Sn	Sr	Ti	W		Size	Type
IMZ-1-19-2			0.084			100 g	CRM
IMZ-1-21-1	0.0067	0.003	(0.005)			100 g	CRM
IMZ-1-22-1	0.0076	0.011	(0.004)			100 g	CRM
IMZ-1-25-3				4.97		100 g	CRM
IMZ-1-26-2				1.7		100 g	CRM
IMZ-1-30						100 g	CRM
IMZ-1-31						100 g	CRM
IMZ-1-32						100 g	CRM
IMZ-1-33						100 g	CRM
IMZ-1-34						100 g	CRM
IMZ-1-71-1		0.009				100 g	CRM

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MQ - Chips / Powders

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	As	B	Ca	N
MQ-C58	Alloyed steel	0.348	1.27	1.25	0.0076	0.0077	0.123	0.086		0.1							
MQ-CX01	Unalloyed steel	0.029	0.146	0.086	0.0063	0.0085	0.222	0.147	(0.031)	0.209	(0.003)	(0.011)	(0.014)	(0.01)	(0.0002)		0.016
MQ-CX011	DSZU - Alloyed Steel Chips 100 g	0.12	0.319	0.562	0.0123	0.0058	0.962	0.203	0.286	0.131	0.178	(0.01)	0.023	0.007	(0.0002)	0.001	(0.01)
MQ-CX02A	DSZU - Alloyed Steel Chips 250 g	0.092	0.86	2.12	0.022	0.0164	0.028	0.014	(0.004)	0.016	(0.004)	(0.003)	(0.004)		(0.002)		0.007
MQ-CX04	Unalloyed steel	0.559	0.327	0.607	0.0133	0.0216	0.0573	(0.017)		0.0147	(0.005)	(0.002)	(0.004)	(0.002)			0.0079
MQ-CX05	Unalloyed steel	0.703	0.302	0.558	0.02	0.027	0.054	0.026	(0.004)	0.037	(0.004)	(0.002)	(0.005)	(0.003)			0.0051
MQ-CX06	Stainless steel	0.082	0.64	1.2	0.026	0.0118	18.4	10.23	(0.13)	0.16	(0.03)	(0.04)	(0.1)	(0.01)			(0.008)
MQ-CX07	Unalloyed steel	0.115	0.312	0.636	0.0152	0.0206	0.084	0.04	(0.004)	0.074	(0.0009)	(0.0024)	(0.007)	(0.003)			(0.0048)
MQ-CX08	Alloyed steel	0.41	0.22	0.533	0.011	0.0241	0.835	0.053		0.086							
MQ-CX09	High manganese steel	1.16	0.35	12.9	0.087	0.0057	0.193	0.121		0.101	(0.03)		(0.007)		(0.0012)		(0.013)
MQ-Y20	Unalloyed steel	0.352	0.253	0.57	0.007	0.0207	0.139	0.208		0.179							
MQ-Y21	Unalloyed steel	0.453	0.291	(0.9)	0.0155	0.0211	0.142	0.152		0.186							

Analyte - Measured Values (continued)

Code	Nb	Pb	Sb	Sn	Ti	W	Zn		Size	Type
MQ-C58									250 g	CRM
MQ-CX01		(0.009)	(0.005)	(0.012)	(0.003)	(0.007)	(0.004)		200 g	CRM
MQ-CX011	(0.003)				0.0018				100 g	CRM
MQ-CX02A		(0.0003)	(0.001)		(0.002)	(0.01)	(0.0003)		250 g	CRM
MQ-CX04		(0.0001)	(0.001)		(0.002)		(0.001)		250 g	CRM
MQ-CX05		(0.0002)	(0.001)		(0.003)	(0.002)	(0.001)		250 g	CRM
MQ-CX06					0.56	(0.03)			100 g	CRM
MQ-CX07	(0.0001)	(0.0003)	(0.0006)		(0.0007)	(0.0015)	(0.0008)		250 g	CRM
MQ-CX08									150 g	CRM
MQ-CX09	(0.014)				(0.006)				75 g	CRM
MQ-Y20									250 g	CRM
MQ-Y21									250 g	CRM

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NCS - Chips / Powders

		Analyte - Measured Values												
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	N
NCS HC11114A	Carbon Steel, 45#	0.472	0.291	0.54	0.021	0.027	0.101	0.05		0.044				
NCS HC11114B	Carbon Steel, 45#	0.472	0.291	0.54	0.021	0.027	0.101	0.05		0.044				
NCS HC11116	Non-Alloy Steel 15Mn (NIM-GBW01209A)	0.156	0.277	0.879	0.015	0.058		0.054		0.124				
NCS HC11134	Carbon Steel	0.741	0.821	1.39	0.012	0.056	0.016	0.016		0.0154	0.157		0.0025	
NCS HC11232	Low Alloy Steel 20CrMo	0.212	0.27	0.46	0.0174	0.0117	0.972		0.191	0.031				
NCS HC11235	Medium Low Alloy Steel	0.24	0.65	1.35	0.0195	0.01	0.014	0.027		0.35				
NCS HC11301	Alloy Steel Cr18Mn10Ni5Mo3	0.059	0.94	10.03	0.018	0.003	17.82	5.72	2.92					0.022
NCS HC11301A	Alloy Steel Cr18Mn10Ni5Mo3	0.18	0.54	8.84	0.017	0.003	18.04	5.11	3.61	0.04		0.013		0.094
NCS HC11307	Alloy steel Cr13Ni5Mn9	0.19	0.69	9.94	0.099	0.009	12.49	4.86		0.031				
NCS HC11307A	Alloy steel Cr13Ni5Mn9	0.17	0.47	8.14	0.043	0.021	12.07	5.02		0.031	0.022	0.027		
NCS HC11319	Alloy Steel 4Cr9Si2 (NIM-GBW01625)	0.327	2.36	0.896	0.018	0.0084	9.11	0.129		0.068				
NCS HC11324	Stainless steel	0.06	0.762	1.14	0.021	0.0047	17.07	12.1	2.93	0.073	0.037	0.081	0.086	
NCS HC11402	Tool Steel W6Mo5Cr4V2	0.72	0.1	0.28	0.027	0.007	3.9		4.88		2.09			
NCS HC11403	Tool steel Cr12W (NIM-GBW01319A)	2	0.297	0.294	0.049	0.0053	11.71	0.113						
NCS HC11403A	Tool steel Cr12W	1.96	0.18	0.31	0.048	0.088	11.99	0.12		0.061				
NCS HC11405	Tool steel W2 (NIM-GBW01318A)	1.14	0.274	0.287	0.014	0.0046	0.183	0.073		0.04				
NCS HC11405A	Tool steel W2	1.25	0.16	0.38	0.035		0.14	0.18						
NCS HC11414	Carbon Tool steel T10, chips	1.05	0.33	0.41	0.011	0.009	0.63	0.021		0.022	0.23			

	Analyte - Measured Values (continued)				
Code	Ti	W		Size	Type
NCS HC11114A				150 g	CRM
NCS HC11114B				150 g	CRM
NCS HC11116				150 g	CRM
NCS HC11134	0.006			150 g	CRM
NCS HC11232				100 g	CRM
NCS HC11235				150 g	CRM
NCS HC11301				100 g	CRM
NCS HC11301A				100 g	CRM
NCS HC11307				100 g	CRM
NCS HC11307A				100 g	CRM
NCS HC11319				100 g	CRM
NCS HC11324	0.321	0.096		100 g	CRM
NCS HC11402		6.77		150 g	CRM
NCS HC11403		0.96		150 g	CRM
NCS HC11403A		0.97		150 g	CRM
NCS HC11405		2.31		150 g	CRM
NCS HC11405A		2.27		150 g	CRM
NCS HC11414				150 g	CRM

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NCS - Chips / Powders

		Analyte - Measured Values												
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Al(s)	B	B(s)
NCS HC11519	Heat resisting steel (NIM-GBW01624)	0.4	1.85	0.95	0.015	0.0041	25.58	34.86	0.348		0.041			
NCS HC13101	Carbon Steel (GBW01206)	0.725	0.24	1.28	0.016	0.03								
NCS HC13201	Low alloy steel 90Mn2 (NIM-GBW01301)	0.91	0.056	2.09	0.054	0.03	0.105	0.076		0.2				
NCS HC13202	Low alloy steel 09SiMnCr3 (NIM-GBW01302)	0.056	1.07	1.2	0.127	0.093	2.88	0.66		0.073				
NCS HC13203	Low alloy steel 7Cr2 (NIM-GBW01303)	0.7	0.041	0.28	0.083	0.064	1.45	0.93		0.12				
NCS HC13204	Low alloy steel 09MnCr (NIM-GBW01304)	0.097	0.29	0.87	0.011	0.096	0.76	0.29		0.034				
NCS HC13205	Low alloy steel 09SiMn2CrCuAl (NIM-GBW01305)	0.035	0.59	1.79	0.089	0.009	1.03	0.02		0.46				
NCS HC13206	Low alloy steel (NIM-GBW01306)	0.81	0.29	0.19	0.06	0.047	0.53	0.11		0.295				
NCS HC13207	Low alloy steel 30MI2MoVTiAlB (NIM-GBW01307)	0.294	0.07	1.48	0.036	0.009	0.037	0.019	0.038	0.035	0.025	0.029		0.011
NCS HC13208	Low alloy steel 9Si2MoVTiAlB (NIM-GBW01308)	1.085	1.42	0.308	0.013	0.004	0.045	0.021	0.89	0.036	0.5		0.016	
NCS HC13209	Low alloy steel 09SiMoTiAlB (NIM-GBW01309)	0.042	1.11	0.309	0.012	0.006	0.013	0.021	0.485	0.035	0.25		0.01	
NCS HC13210	Low alloy steel 8SiMnMoVTiAlB (NIM-GBW01310)	0.78	0.88	0.675	0.013	0.122	0.019	0.021	0.65	0.036	0.33		0.0058	
NCS HC13212	Low alloy steel 09SiMoVTiAlB (NIM-GBW01312)	0.045	0.46	0.396	0.054	0.069	(0.0095)	0.016	0.11	0.03	0.051		0.028	
NCS HC13401	Tool Steel T8A (GBW01207)	0.81	0.18	0.23	0.013	0.0065								
NCS HC13402	Tool Steel T13A (GBW01208)	1.26	0.25	0.28	0.018	0.0105								
NCS HC13403	Tool Steel T11A	1.155	0.46	1.14	0.043	0.038								
NCS HC13404	Tool Steel T12A	1.18	0.32	0.7	0.01	0.0065								
NCS HC14201A	Low Alloy Steel	0.358	0.272	0.573	0.014	0.0086	1.03	0.02	0.137	0.15		0.061		

	Analyte - Measured Values (continued)				
Code	Ti	W		Size	Type
NCS HC11519		0.93		100 g	CRM
NCS HC13101				150 g	CRM
NCS HC13201				150 g	CRM
NCS HC13202				150 g	CRM
NCS HC13203				100 g	CRM
NCS HC13204				150 g	CRM
NCS HC13205				150 g	CRM
NCS HC13206				100 g	CRM
NCS HC13207	0.023			150 g	CRM
NCS HC13208	0.3			150 g	CRM
NCS HC13209	0.7			150 g	CRM
NCS HC13210	0.39			150 g	CRM
NCS HC13212	0.041			150 g	CRM
NCS HC13401				150 g	CRM
NCS HC13402				150 g	CRM
NCS HC13403				150 g	CRM
NCS HC13404				150 g	CRM
NCS HC14201A				100 g	CRM

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NCS - Chips / Powders

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Al	Al(s)	As	B
NCS HC14202	Low Alloy Steel (NIM-GBW01336)	0.118	0.405	0.433	0.017	0.012				0.421		0.389			
NCS HC14204	Low Alloy Steel (NIM-GBW01338)	0.08	0.583	0.636	0.024	0.012				0.363		0.317			
NCS HC14205	Low Alloy Steel (NIM-GBW01339)	0.076	0.037	0.303	0.033	0.061				0.22		0.334			
NCS HC14206	Low Alloy Steel (NIM-GBW01340)	0.089	0.389	0.54	0.013	0.022				0.314		0.465			
NCS HC15004	Pure Iron (NIM-GBW01404)	0.0272	0.0994	0.246	0.0094	0.012	0.013	0.0202		0.031		0.37			
NCS HC15006	Pure Iron (NIM-GBW01406)	0.08	0.171	0.043	0.0159	0.0075	0.043	0.147		0.135		0.088			
NCS HC15006A	Pure Iron	0.061	0.341	0.254	0.021	0.0058	0.114	0.182		0.168		0.412			
NCS HC15007	Pure Iron (NIM-GBW01407)	0.091	0.341	0.399	0.0246	0.017	0.148	0.243		0.201		0.18			
NCS HC15007A	Pure Iron	0.08	0.506	0.358	0.036	0.031	0.17	0.203		0.254		0.432			
NCS HC15014	Pure Iron	0.0208	0.0922	0.246	0.0121	0.007	0.013	0.0202		0.02		0.046		0.0002	
NCS HC17201	Low alloy steel SiMnB (NIM-GBW01322)	0.0332	1.5	0.23	0.0128	0.022	0.473	0.078		0.32	0.05	0.069			0.0016
NCS HC17201A	Low alloy steel	0.087	1.41	0.234	0.0067	0.049	0.653	0.48		0.371	0.536	0.392	0.386		0.0054
NCS HC17202A	Low alloy steel	0.18	0.241	1.3	0.016	0.023	0.428	0.167		0.304	0.172	0.125	0.121		0.0021
NCS HC17203	Low alloy steel SiMnB (NIM-GBW01324)	0.283	1.09	0.438	0.022	0.023	0.3	0.224		0.247	0.144	0.132			0.0041
NCS HC17203A	Low alloy steel	0.337	1.06	0.449	0.031	0.067	0.297	0.111		0.251	0.147	0.193	0.188		0.0057
NCS HC17204A	Low alloy steel	0.396	0.195	0.887	0.026	0.015	0.215	0.262		0.116	0.101	0.049	0.048		0.004
NCS HC17401	Tool steel W18Cr4V (NIM-GBW01316)	0.762	0.241	0.28	0.0241	0.026	4.03	0.04	0.245	0.038	1.3				
NCS HC17402	Tool steel W6Mo5Cr4V2 (NIM-GBW01313)	0.855	0.232	0.275	0.0261	0.011	4.08	0.046	4.84	0.041	2.02				

Analyte - Measured Values (continued)

Code	B(s)	B(t)	N	Pb	Sb	Sn	Ti	W		Size	Type
NCS HC14202								0.519		100 g	CRM
NCS HC14204								0.149		100 g	CRM
NCS HC14205								0.144		100 g	CRM
NCS HC14206								0.089		100 g	CRM
NCS HC15004										100 g	CRM
NCS HC15006										100 g	CRM
NCS HC15006A			0.012							100 g	CRM
NCS HC15007										100 g	CRM
NCS HC15007A			0.018							100 g	CRM
NCS HC15014				0.000085	0.0005	0.0012				100 g	CRM
NCS HC17201		0.0067					0.247			100 g	CRM
NCS HC17201A	0.0044						0.046			100 g	CRM
NCS HC17202A	0.0018						0.179			100 g	CRM
NCS HC17203		0.0045					0.171			100 g	CRM
NCS HC17203A	0.0047						0.248			100 g	CRM
NCS HC17204A	0.0032						0.058			100 g	CRM
NCS HC17401								18.16		100 g	CRM
NCS HC17402								5.99		100 g	CRM

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NCS - Chips / Powders

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Al(s)	As
NCS HC17403	Tool steel 3Cr2W8V (NIM-GBW01314)	0.359	0.17	0.298	0.0211	0.021	2.48	0.0208	0.055	0.03	0.27				
NCS HC17405	High speed steel	0.941	0.521	0.441	0.023	0.028	1.99	0.095	0.122		0.18				
NCS HC17406	High speed steel	0.78	0.23	0.427	0.024	0.02	3.64	0.134	0.176		0.44				
NCS HC17407	High speed steel	0.71	0.183	0.268	0.029	0.0064	4.29	0.187	0.266		1.05				
NCS HC17408	High speed steel	0.577	0.383	0.233	0.015	0.0043	2.7	0.231	0.33		0.81				
NCS HC17409	High speed steel	0.493	0.493	0.343	0.304	0.0048	4.78	0.278	0.411		1.49				
NCS HC17414	High speed steel	0.322	1.16	2.719	0.0228	0.0177	4.43	0.862	6.16		1.083	2.939	1.955		
NCS HC18202A	Low alloy steel	0.247	1.05	0.915	0.03	0.04	0.186	0.304	0.489	0.133	0.349		0.052	0.049	0.075
NCS HC20201	Low Alloy Steel 20Cr (NIM-GBW01357)	0.209	0.98	0.609	0.015	0.014	0.808	0.093	0.0088	0.089	0.0032				
NCS HC20202	Low Alloy Steel 40Cr (NIM-GBW01358)	0.409	0.376	0.742	0.015	0.011	1.053	0.063	0.0088	0.086	0.0023				
NCS HC20207	Low Alloy Steel 15CrMnMoV (NIM-GBW01654)	0.137	0.102	1.03	0.014	0.012	1.36	0.035	0.91	0.08	0.272	0.01	0.031		
NCS HC20210	Silicon Steel (NIM-GBW01372)	0.057	3.36	0.225	0.012	0.02	0.259	0.316	0.0036	0.314			0.1679	0.166	
NCS HC20306	Alloy steel, 0Cr4Ni22 (NIM-GBW01656)	0.032	0.238	0.578	0.013	0.0036	4.04	22.43	0.0019	0.03	0.0047	0.011	0.0024		0.0026
NCS HC20307	Alloy steel, 1Cr11Ni5Mn5Mo3Al (NIM-GBW01657)	0.069	0.47	4.76	0.031	0.011	11.54	4.54	3.09	0.121	0.02	0.044	0.63		0.0093
NCS HC20503	Alloy steel 4J29 (NIM-GBW01502)	0.0015	0.106	0.307	0.0019	0.0056		28.8	0.029	0.072		17.77			
NCS HC21201B	Low alloy steel GCr15 (NIM-GBW01317B)	0.99	0.239	0.315	0.0065	0.0054	1.47	0.042	0.032	0.086		0.0093	0.037	0.035	0.0092
NCS HC21202	Low alloy steel GCr15SiMn	1.006	0.55	1.063		0.0065	1.506	0.046	0.011	0.126			0.042		0.011
NCS HC21203	Low alloy steel GCr15	1.01	0.305	0.37	0.012	(0.0004)	1.55	0.046		0.081					

Analyte - Measured Values (continued)

Code	B	N	Nb	Pb	Sb	Sn	Ti	W		Size	Type
NCS HC17403								8.39		100 g	CRM
NCS HC17405								19.22		150 g	CRM
NCS HC17406								18.72		150 g	CRM
NCS HC17407								17.64		150 g	CRM
NCS HC17408								16.24		150 g	CRM
NCS HC17409								14.96		150 g	CRM
NCS HC17414			0.497					9.22		150 g	CRM
NCS HC18202A	0.0087		0.095	0.016		0.016	0.145			100 g	CRM
NCS HC20201										100 g	CRM
NCS HC20202										100 g	CRM
NCS HC20207							0.0045	0.032		100 g	CRM
NCS HC20210										100 g	CRM
NCS HC20306		0.011				0.0022	0.0018	0.001		100 g	CRM
NCS HC20307		0.04				0.015	0.01	0.023		100 g	CRM
NCS HC20503							0.003			100 g	CRM
NCS HC21201B				0.00017	0.0045	0.02	0.0035			100 g	CRM
NCS HC21202	0.0031				0.022	0.0107	0.0072			100 g	CRM
NCS HC21203										100 g	CRM

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NCS - Chips / Powders

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Al(s)	As
NCS HC21204	Low alloy steel GCr15	1.019	0.151	0.338	0.02	(0.019)	1.539			0.086					
NCS HC21205	Low alloy steel GCr15	0.953	0.193	0.282	0.0276	0.012	1.634			0.0233					0.0334
NCS HC21206	Low alloy steel GCr15SiMn	0.98	0.404	0.99	0.023	0.005	1.38								0.022
NCS HC21207	Low alloy steel 60Si2Mn	0.501	2.15	0.6	0.0149	0.0174	0.362	0.276	0.16	0.195	0.043		0.065		
NCS HC21208	Low alloy steel 60Si2Mn	0.4	2.91	0.437	0.0064	0.0029	0.159	0.064	0.012	0.064			0.113		
NCS HC21209	Low alloy steel 60Si2Mn	0.599	1.69	1.14	0.0209	0.0291	1.13	0.124	0.091	0.095	0.084			0.018	
NCS HC21210	Low alloy steel 60Si2Mn	0.706	1.1	0.857	0.0256	0.0374	0.76	0.393	0.273	0.303	0.168			0.158	
NCS HC21211	Low alloy steel 60Si2Mn	0.666	1.74	0.752	0.0144	0.019	0.071	0.081	0.051	0.147	0.129			0.132	
NCS HC21212	Low alloy steel H08Mo2SiA	0.087	0.827	1.9	0.0107	0.0156	0.035	0.061		0.091					
NCS HC21215	Low alloy steel 30MoVAlTiRE	0.37	0.42	1.15	0.013	<0.001	0.061	0.13	1.05		0.52				
NCS HC21218	Low alloy steel CrMnV+Mo	0.09	0.775	9.88	0.0464	0.012	18.8	4.97	3.1	0.0396	0.024				
NCS HC21220	Low alloy steel CrMnN	0.09	0.82	13.56	0.1	0.026	15.89	7.114		0.08	0.027				
NCS HC21221	Low alloy steel 20MnSi	0.218		1.28	0.02	0.025	0.239	0.094	0.061	0.136	0.094				
NCS HC21305	Alloy steel Cr12	2.223	0.171	0.142	0.0226	0.0094	12.18	0.095	0.0067	0.41	0.03				
NCS HC21309	Shape memory steel alloy	0.026		15.95	0.027	0.0008	12.04	6.69	0.257	0.086	0.035	0.031		0.047	
NCS HC22101	Carbon steel (NIM-GBW01201)	0.091	0.266	0.569	0.0123	0.031	0.093	0.241		0.196	0.011		0.095		
NCS HC22102	Carbon steel (NIM-GBW01202)	0.188	0.15	0.461	0.0269	0.052	0.128	0.175		0.268	0.0048		0.048		
NCS HC22103	Carbon steel (NIM-GBW01203)	0.338	0.475	0.856	0.038	0.012	0.27	0.042		0.053	0.0026		0.0079		

Analyte - Measured Values (continued)

Code	B(s)	N	Nb	Sn	Ti	W		Size	Type
NCS HC21204				0.049				100 g	CRM
NCS HC21205				0.038				100 g	CRM
NCS HC21206								100 g	CRM
NCS HC21207						0.77		100 g	CRM
NCS HC21208						1.18		100 g	CRM
NCS HC21209						0.028		100 g	CRM
NCS HC21210	0.0012					0.176		100 g	CRM
NCS HC21211	0.0013					0.4		100 g	CRM
NCS HC21212								100 g	CRM
NCS HC21215								100 g	CRM
NCS HC21218		0.097						100 g	CRM
NCS HC21220		0.29						100 g	CRM
NCS HC21221					0.028			100 g	CRM
NCS HC21305						0.028		100 g	CRM
NCS HC21309			0.108	0.0064	0.015	0.099		100 g	CRM
NCS HC22101					0.0098			150 g	CRM
NCS HC22102					0.028			150 g	CRM
NCS HC22103					0.003			100 g	CRM

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NCS - Chips / Powders

Code	Description	Analyte - Measured Values													
		C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Al(i)	As
NCS HC23202	Low alloy steel 30CrNi2MoV (NIM-GBW01353)	0.302	0.278	0.503	0.039	0.061	0.94	2.31	0.244	0.257	0.217		0.011		
NCS HC23218	Low alloy steel 35MnWMoVB	0.33	0.4	1.02	0.032	0.024	0.18	0.26	0.137	0.17	0.25				
NCS HC28104	Carbon steel, 100g	0.327	0.3	0.511	0.0214	0.023	0.024	0.036	0.006	0.212		0.011	0.051		0.01
NCS HC29322	Alloy steel Cr14	0.077	1.487	13.49	0.074	0.0166	14	1.63							
NCS HC37303	Stainless steel	0.032	0.78	1.45	0.026	0.019	16.14	10.3	2.28						
NCS HC37304	Stainless steel	0.075	0.77		0.033	0.025	18.56	8.49	0.089	0.225		0.17			
NCS HC37305	Stainless steel	0.086	0.84		0.032	0.014	17.45	9.26	0.04	0.16		0.17			
NCS HC37306	Stainless steel	0.134	1.06		0.033	0.021	17.01	8.56	0.062	0.16		0.16			
NCS HC37307	Stainless steel	0.144	0.56		0.038	0.028	12.07	0.184		0.207		0.017			
NCS HC37308	Stainless steel	0.232	0.82		0.042	0.027	12.42	0.68	0.073	0.12		0.03			
NCS HC41216	Low alloy steel 25CrMoV	0.235	0.246	0.703	0.0072	0.0016	1.07		1.03	0.027	0.294	0.0053	0.0011	0.0029	0.0041
NCS HC41316	Stainless Steel	0.023	0.39	0.86	0.032	0.00086	18.35	8.22	0.209	0.617	0.066	0.128			0.0061
NCS HC41317	Stainless Steel	0.053	0.571	1.03	0.032	0.00071	17.17	9.19	0.154	0.383	0.059	0.132			0.0047
NCS HC41318	Stainless Steel	0.023	0.421	1.25	0.03	0.0013	22.26	4.85	3.11	0.136	0.038	0.047			0.0085
NCS HC41503	Corrosion-resisting alloy	0.071	0.36	0.807	0.015	0.0006	20.72	32.27	0.297	0.038		0.05	0.299		

Code	Analyte - Measured Values (continued)										Size	Type
	Bi	N	Nb	Pb	Sb	Sn	Ti	W	Zr			
NCS HC23202											150 g	CRM
NCS HC23218								0.5	0.0034		150 g	CRM
NCS HC28104	<0.00001			0.00062	0.012	0.049					100 g	CRM
NCS HC29322											150 g	CRM
NCS HC37303											100 g	CRM
NCS HC37304		1.44									100 g	CRM
NCS HC37305		1.45									100 g	CRM
NCS HC37306		1.51									100 g	CRM
NCS HC37307		0.71									100 g	CRM
NCS HC37308		0.8									100 g	CRM
NCS HC41216		0.0065		0.00006	0.00097	0.0029		0.0074			150 g	CRM
NCS HC41316			0.011			0.022	0.006	0.024			100 g	CRM
NCS HC41317			0.0095			0.013	0.309	0.018			100 g	CRM
NCS HC41318		0.175	0.014			0.0032	0.0014	0.011			100 g	CRM
NCS HC41503							0.49				100 g	CRM

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Japanese Steel (SEI) - Chips / Powders

		Analyte - Measured Values													
Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	Al(s)	As
SEI-030-9	JSS 030-9: Carbon Steel: 0.2 %C	0.195	0.237	0.750	0.0237	0.0076				0.0239			0.0227	0.0218	
SEI-050-7	JSS 050-7: Carbon steel	0.378	0.190	0.498	0.0129	0.0058				0.0075			0.0233	0.0224	
SEI-057-9	JSS 057-9: Carbon steel	0.529	0.182	0.759	0.0164	0.0199				0.0128			0.0272		
SEI-150-18	JSS 150-18: Low alloy steel no. 1	0.495	0.201	0.1010	0.0398	0.0290	0.305	4.00	0.196	0.0491	0.0193		0.0129	0.0124	
SEI-152-18	JSS 152-18: Low alloy steel No.3	0.277	0.387	0.44	0.0174	0.0056	0.584	1.98	1.01	0.5	0.1		0.021		
SEI-153-18	JSS 153-18: Low alloy steel No.4	0.199	0.300	0.804	0.0094	0.0100	0.998	1.007	1.290	0.300	0.199		0.0079	0.0075	
SEI-155-16	JSS 155-16: Low alloy steel No.6	0.0394	0.495	0.185	0.0018	0.0051	3	0.153	0.705	0.398	0.403		0.021	0.02	
SEI-168-8	JSS 168-8: Minor element No.1	0.0399	0.201	0.417			0.0211	0.0226	0.099				0.038	0.037	0.0111
SEI-170-8	JSS 170-8: Minor elements no. 3	0.0397	0.194	0.398			0.0504	0.076	0.0100				0.035	0.034	0.0031
SEI-171-8	JSS 171-8: Minor elements no. 4	0.0406	0.196	0.400			0.075	0.101	0.0296				0.0374	0.0369	0.0011
SEI-172-8	JSS 172-8: Minor elements no. 5	0.0391	0.190	0.395							0.0110	0.0493	0.010	0.009	
SEI-173-8	JSS 173-8: Minor elements no. 6	0.0386	0.212	0.413							0.0396	0.0298	0.0199	0.0196	
SEI-174-8	JSS 174-8: Minor elements no. 7	0.0402	0.204	0.397							0.0734	0.0196	0.03136	0.0307	

	Analyte - Measured Values (continued)										
Code	B	Ca	N	Nb	Sb	Sn	Ti	Zr		Size	Type
SEI-030-9			0.00312							150 g	CRM
SEI-050-7			0.0028							150 g	CRM
SEI-057-9			0.0052							150 g	CRM
SEI-150-18										150 g	CRM
SEI-152-18										150 g	CRM
SEI-153-18										150 g	CRM
SEI-155-16										150 g	CRM
SEI-168-8						0.0052	0.0701			150 g	CRM
SEI-170-8		0.0017				0.0538	0.099			150 g	CRM
SEI-171-8		0.0028				0.0317	0.0300			150 g	CRM
SEI-172-8	0.00096			0.0497	(0.0022)			0.0081		150 g	CRM
SEI-173-8	0.00187							0.0051		150 g	CRM
SEI-174-8	0.0059			0.0196	0.0113			0.027		150 g	CRM

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Japanese Steel (SEI) - Chips / Powders

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	B	N
SEI-175-8	JSS 175-8: Minor element No.8	0.029	0.212	0.401							0.121	0.0098	0.057	0.0102	
SEI-514-8	JSS 514-8: Case hardening steel SCM 420	0.201	0.186	0.836	0.0166	0.0188	1.2	0.0282	0.265	0.012	0.0059		0.031		0.0096
SEI-517-7	JSS 517-7: Case hardening steel SNCM	0.2	0.25	0.826	0.0107	0.0084	1.75	3.04	0.516	0.0132	(0.003)		(0.006)		0.0061
SEI-601-11	JSS 601-11: Toolsteel SKS 21	1.041	0.263	0.304	0.0218	0.0103	0.361	0.1556	0.0449	0.1520	0.176				0.0099
SEI-602-11	JSS 602-11: Toolsteel SKS 11	1.242	0.265	0.301	0.0194	0.0102	0.366	0.1547	0.0455	0.1513	0.218				0.0095
SEI-604-9	JSS 604-9: Toolsteel SKD 6	0.362	1.056	0.346	0.0185	0.0122	4.9	0.177	1.079	0.063	0.512				0.0174
SEI-605-11	JSS 605-11: Tool steel SKT 4	0.554	0.256	0.758	0.0197	0.0109	1.008	1.661	0.457	0.155	0.1014				0.0192
SEI-611-11	JSS 611-11: High speed steel SKH 51	0.898	0.278	0.323	0.0208	0.00139	4.06	0.111	4.91	0.0503	2.14	0.282			0.0209
SEI-651-15	JSS 651-15: Stainless steel SUS 304	0.0384	0.565	0.918	0.0252	0.00180	18.12	8.05	0.076	0.124	0.062	0.095	0.0023		(0.048)
SEI-652-15	JSS 652-15: Stainless steel - SUS 316	0.0394	0.592	0.933	0.0328	0.0024	16.86	10.09	2.04	0.229	0.057	0.159	0.0018		0.0232
SEI-653-15	JSS 653-15: Stainless steel SUS 304	0.0563	0.616	1.572	0.0305	0.00096	22.38	13.73	0.144	0.200	0.093	0.193	0.0045		0.0387
SEI-654-15	JSS 654-15: Stainless steel SUS 310S	0.0419	0.681	0.874	0.0189	0.00042	24.92	19.12	0.035	0.042	0.111	0.0716	0.0098		0.0209
SEI-656-1	JSS 656-1: Stainless steel SUS 315	0.0049	0.695	1.54	(0.0019)	0.00188	18.90	8.93	0.298	1.475	0.301				(0.0021)

Analyte - Measured Values (continued)

Code	Description	Nb	Sb	Ti	W	Zr				Size	Type
SEI-175-8	JSS 175-8: Minor element No.8	0.0105	0.021			0.046				150 g	CRM
SEI-514-8	JSS 514-8: Case hardening steel SCM 420									150 g	CRM
SEI-517-7	JSS 517-7: Case hardening steel SNCM									150 g	CRM
SEI-601-11	JSS 601-11: Toolsteel SKS 21				0.755					150 g	CRM
SEI-602-11	JSS 602-11: Toolsteel SKS 11				03.57					150 g	CRM
SEI-604-9	JSS 604-9: Toolsteel SKD 6				0.0114					150 g	CRM
SEI-605-11	JSS 605-11: Tool steel SKT 4				0.0104					150 g	CRM
SEI-611-11	JSS 611-11: High speed steel SKH 51				6.10					150 g	CRM
SEI-651-15	JSS 651-15: Stainless steel SUS 304									150 g	CRM
SEI-652-15	JSS 652-15: Stainless steel - SUS 316									150 g	CRM
SEI-653-15	JSS 653-15: Stainless steel SUS 304									150 g	CRM
SEI-654-15	JSS 654-15: Stainless steel SUS 310S									150 g	CRM
SEI-656-1	JSS 656-1: Stainless steel SUS 315	0.289		0.302						150 g	CRM

Miscellaneous - Chips / Powders

Analyte - Measured Values

Code	Description	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Co	Al	As	Bi	H
SK V02	Stainless Steel, aust.	0.054	0.6	1.01	0.013	0.013	19.1	11	0.01	0.085	0.04	0.051	0.075	0.008	0.0001	
SK V08	Stainless Steel, aust.	0.06	0.59	1.25	0.016	0.013	18.7	11.2	0.01	0.05	0.04	0.024	0.07	0.008	0.001	
BAM-STEEL-H1	H in Steel, 1.4546.9, 100 pins @ 1g each															0.000097

Analyte - Measured Values (continued)

Code	Nb	Pb	Sb	Sn	Ti	W	Zn		Size	Type
SK V02	0.005	0.0011	0.003	0.005	0.43	0.005	0.008		100 g	RM
SK V08	0.005	0.0025	0.011	0.007	0.43	0.005	0.008		100 g	RM
BAM-STEEL-H1									100 pins	CRM

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