

## C, S, O, N IN IRON AND STEEL, CHART 1 of 4

# = class, 1 = CRM and 2 = RM analysis in mass % 34, 17025 = ISO

#	Number	Carbon	Sulfur	Oxygen	Nitrogen	Units
1	JSS 202-2	1.443	.	.	.	150 g chips
1	JSS 202-1	1.386	.	.	.	150 g chips last
1	NH M02	1.34	0.007	.	.	150 g chips
1	NCS NS18016	1.19	0.0080	.	.	100 g chips
1	Y 31916	1.19	0.0080	.	.	100 g chips
2	KMS HCS-001	1.161	0.1318	.	.	100 g chips last
1	ECRM 268-1C	1.134	0.0154	.	2.03	100 g chips
1	NCS NS18015	1.09	0.018	.	.	100 g chips
1	Y 31915	1.09	0.018	.	.	100 g chips
1	DSZU CA02	1.03	0.0021	.	0.0030	200 x 1.05 g balls
1	JSS 208-4	1.017	.	.	.	150 g chips
2	KMS HCS-002	1.013	0.123	.	.	100 g chips
1	JSS 208-3	0.998	.	.	.	150 g chips last
1	DSZU CX010a	0.993	0.0203	.	.	200 g chips
1	NCS NS18014	0.990	0.0041	.	.	100 g chips
1	Y 31914	0.990	0.0041	.	.	100 g chips
1	CZ 2008A	0.977	0.0091	.	0.0066	250 g chips
1	TH 1006-4	0.952	0.0111	.	0.0046	100 g chips last
2	SAG 0703	0.924	0.0041	17025	0.0070	100 g chips
1	NCS NS18013	0.890	0.022	.	.	100 g chips
1	Y 31913	0.890	0.022	.	.	100 g chips
1	VS U13/4	0.888	0.0070	.	.	100 g chips
2	SAG 0704	0.818	0.0040	17025	0.0040	100 g chips
1	NCS NS13026	0.81	.	.	.	100 g chips
1	TH 1027-2	0.726	0.0092	.	0.003	100 g chips
1	NCS NS13025	0.725	.	.	.	100 g chips
1	IPT 60A	0.715	0.012	.	.	100 g chips
2	SAG 0709	0.704	0.0064	17025	0.0030	100 g chips
1	NCS NS11010	0.703	0.010	.	.	50 g 0.5g balls last
1	ECRM 049-1	0.701	0.0040	.	0.0031	100 g chips
1	CZ 2007A	0.684	0.0106	.	0.0128	250 g chips
1	NCS NS13008	0.644	0.068	.	.	100 g chips
1	NCS NS18012	0.610	0.0095	.	.	100 g chips
1	Y 31912	0.610	0.0095	.	.	100 g chips
1	ECRM 079-2	0.596	0.192	.	0.0074	100 g chips
1	NCS NS13024	0.59	.	.	.	100 g chips
1	SRM 2160	0.584	0.012	.	.	200 g 1 g pins
2	BS CSN 2-2	0.548	0.028	.	0.076	500 g 1 g pins
1	NCS NS18011	0.543	0.012	.	.	100 g chips
1	Y 31911	0.543	0.012	.	.	100 g chips
1	NCS NS28027	0.523	0.017	.	.	100 g chips
1	NCS NS93011	0.512	0.0095	.	.	100 g chips
1	IPT 59A	0.495	0.018	.	.	100 g chips
1	NCS NS13005	0.485	0.024	.	.	100 g chips
1	NCS NS13023	0.48	.	.	.	100 g chips
1	IARM 259A	0.479	0.0007	0.0014	0.0077	100 g chips
2	BS CSN 2-1	0.476	0.034	.	0.064	500 g 1 g pins
1	NCS NS28029	0.465	0.020	.	.	100 g chips
1	NCS NS28005	0.462	0.0096	.	.	100 g chips
1	CZ 2006A	0.461	0.0172	.	0.0066	250 g chips
1	NCS NS18010	0.455	0.019	.	.	100 g chips
1	Y 31910	0.455	0.019	.	.	100 g chips
2	DH E2184	0.4433	0.0152	.	.	50 g chips
2	SAG 0707	0.435	0.1965	17025	0.0064	100 g chips
1	ECRM 058-2C	0.424	0.1712	.	0.0107	100 g chips

#	Number	Carbon	Sulfur	Oxygen	Nitrogen	Units
1	NCS NS11087	0.113	0.0023	.	.	100 g chips
1	VS U17/4	0.106	0.137	.	.	100 g chips
1	ECRM 286-1	0.100	0.280	.	0.043	100 g chips
1	NCS NS13020	0.10	.	.	.	100 g chips
2	DH E2111	0.0953	0.0066	.	.	50 g chips last of stock
1	VS 6-1	0.094	0.0205	.	.	100 g chips
1	TH 1041	0.0925	0.0100	.	.	100 g chips
1	NH M01	0.090	0.057	.	.	150 g chips
1	NCS NS11085	0.087	0.0053	.	.	100 g chips
1	NCS NS11100	0.066	0.0033	.	0.161	50 g chips

## C, S, O, N IN IRON AND STEEL, CHART 2 of 4

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#	Number	Carbon	Sulfur	Oxygen	Nitrogen	Units
1	NCS NS28004	0.416	0.022	.	.	100 g chips
1	NCS NS18009	0.415	0.020	.	.	100 g chips
1	Y 31909	0.415	0.020	.	.	100 g chips
1	NCS NS11088	0.411	0.0040	.	.	100 g chips
2	DH E2333	0.3876	0.0585	.	.	50 g chips
1	TH 1013-2	0.384	0.0344	.	0.0142	100 g chips
1	NCS NS18008	0.376	0.028	.	.	100 g chips
1	Y 31908	0.376	0.028	.	.	100 g chips
1	NCS NS93012	0.375	0.046	.	.	100 g chips
1	NCS NS13022	0.37	.	.	.	100 g chips
1	CZ 2005A	0.358	0.0250	.	0.0081	250 g chips, last
1	NCS NS93005	0.357	0.018	.	.	100 g chips
2	SAG 0706	0.347	0.0245	17025	0.0098	100 g chips
1	NCS NS28025a	0.330	0.024	.	.	100 g chips
1	NCS NS11003	0.322	0.020	.	.	150 g chips
1	IPT 58A	0.316	0.021	.	.	120 g chips
1	NCS NS18007	0.312	0.026	.	.	100 g chips
1	Y 31907	0.312	0.026	.	.	100 g chips
1	NCS NS93009	0.310	0.031	.	.	100 g chips
1	JSS 252-3	0.302	0.0415	.	.	150 g chips
1	NCS NS93004	0.293	0.040	.	.	100 g chips
1	NCS NS18006	0.282	0.033	.	.	100 g chips
1	Y 31906	0.282	0.033	.	.	100 g chips
2	SAG 0708	0.257	0.0014	17025	.	100 g chips
1	NCS NS11011	0.235	0.039	.	.	100 g chips
1	NCS NS93008c	0.233	0.030	.	.	100 g chips
1	VS U19/2	0.233	0.030	.	.	100 g chips
1	NCS NS13021	0.21	.	.	.	100 g chips
1	NCS NS18005	0.204	0.022	.	.	100 g chips
1	Y 31905	0.204	0.022	.	.	100 g chips
2	DH E2218	0.1989	0.0014	.	0.0155	50 g chips
1	VS 6-2	0.195	0.0250	.	.	100 g chips
1	NCS NS93014	0.190	0.030	.	.	100 g chips
2	DH E2161	0.1843	0.0043	.	0.0186	50 g chips
2	SAG 0705	0.184	0.0020	17025	0.0580	100 g chips
1	VS U15/6	0.182	0.0218	.	.	100 g chips
1	JK 21	0.1741	0.011	.	0.008	150 g chips
2	DH E21-372	0.1720	0.0011	.	0.0120	50 g chips
2	DH E21-371	0.1712	0.0011	.	0.0119	50 g chips
1	NCS NS18004	0.171	0.0102	.	.	100 g chips
1	Y 31904	0.171	0.0102	.	.	100 g chips
2	DH E23-291	0.1668	0.0007	.	0.0050	50 g chips
1	ECRM 077-3	0.1650	0.0162	.	0.00860	100 g chips
2	DH E2172	0.1611	0.0147	.	.	50 g chips
1	NCS NS28021	0.160	0.028	.	.	100 g chips
2	DH E2122	0.1599	0.0016	.	0.0078	50 g chips
2	SAG 0710	0.155	0.0209	17025	.	100 g chips
2	DH E23-211	0.154	0.0009	.	0.0040	50 g chips
2	DH E2201	0.1492	0.0048	.	.	50 g chips
1	NCS NS93013b	0.146	0.014	.	.	100 g chips
2	DH E2106	0.1406	0.0277	.	0.0063	50 g chips
2	DH E2334	0.135	0.0010	.	0.0147	50 g chips last of stock
2	DH E2175	0.1290	0.0181	.	.	50 g chips
1	VS U11/5	0.119	0.027	.	.	100 g chips
1	NCS NS11086	0.116	0.0020	.	.	100 g chips
1	NCS NS11087	0.113	0.0023	.	.	100 g chips
1	VS U17/4	0.106	0.137	.	.	100 g chips
1	ECRM 286-1	0.100	0.280	.	0.043	100 g chips
1	NCS NS13020	0.10	.	.	.	100 g chips
2	DH E2111	0.0953	0.0066	.	.	50 g chips last of stock
1	VS 6-1	0.094	0.0205	.	.	100 g chips
1	TH 1041	0.0925	0.0100	.	.	100 g chips
1	NH M01	0.090	0.057	.	.	150 g chips
1	NCS NS11085	0.087	0.0053	.	.	100 g chips
1	NCS NS11100	0.066	0.0033	.	0.161	50 g chips

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#	Number	Carbon	Sulfur	Oxygen	Nitrogen	Units
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## C, S, O, N IN IRON AND STEEL, CHART 3 of 4

# = class, 1 = CRM and 2 = RM analysis in mass %

#	Number	Carbon	Sulfur	Oxygen	Nitrogen	Units
1	VS S41/5	0.085	0.0069	.	0.142	100 g chips
1	TH 1038	0.0823	0.247	.	.	50 g chips, last
1	NCS NS18003	0.082	0.035	.	.	100 g chips
1	Y 31903	0.082	0.035	.	.	100 g chips
2	DH E23-201	0.0800	0.0027	.	0.0120	50 g chips
2	DH E2317	0.0795	0.0014	.	.	50 g chips
2	DH E2318	0.0793	.	.	.	50 g chips
1	CZ 2004A	0.079	0.0464	.	0.0038	250 g chips, last
1	TH 1042-3	0.079	0.0231	.	0.0091	100 g chips
1	TH 1042-2	0.0778	0.0227	.	0.0087	100 g chips
1	DSZU CX020a	0.076	0.034	.	.	200 g chips
2	BS CSN A	0.068	0.305	.	0.0081	100 g chips
1	CZ 2026A	0.068	0.255	.	.	250 g chips
1	ECRM 294-1C	0.0657	0.00031	.	0.566	100 g chips
2	DH E2326	0.0637	0.0013	.	.	50 g chips
2	DH E23-221	0.0622	0.0007	.	0.0031	50 g chips
2	DH E2322	0.0609	0.0009	.	.	50 g chips, last
2	DH E21-961	0.0609	0.0006	.	0.0034	50 g chips
2	DH E2135	0.0502	0.0083	.	0.0019	50 g chips
2	DH E22041	0.0469	0.0277	.	0.0035	50 g chips
1	JSS 201-15	0.0439	.	.	.	150 g chips
1	JSS 201-16	0.0413	.	.	.	150 g chips
1	NCS NS11026a	0.041	0.0025	.	.	100 g chips
1	CZ 2003A	0.0402	0.0316	.	0.0046	250 g chips
1	TH 1070	0.0392	0.0217	.	0.004	100 g chips
1	TH 1039-2	0.0352	0.0222	.	0.0027	100 g chips
1	ECRM 273-1C	0.0336	0.0004	.	0.0444	100 g chips
1	VS U10/5	0.032	0.0124	.	.	100 g powder
2	DH E2179	0.0232	.	.	.	50 g chips
1	NCS NS11040	0.019	0.0116	.	.	100 g chips
1	IARM 214A	0.018	0.002	0.0026	0.27	100 g chips
1	JSS 204-2	0.0178	.	.	.	150 g chips
1	ECRM 295-1C	0.0166	0.0004	.	0.0615	100 g chips
1	TH 1069	0.0148	0.0129	.	0.0043	100 g chips
1	ECRM 298-1C	0.0146	0.0006	.	0.263	100 g chips last
1	JK 36	0.0125	0.0126	.	0.0337	150 g chips
2	KMS HNCS-001	0.01017	0.00377	.	0.0436	100 g 1 g pins
1	JSS 1203-5	0.00876	.	.	.	150 g chips
1	SRM 166c	0.00781	.	.	.	100 g chips
1	NCS NS11024	0.0066	0.023	.	.	100 g chips last
#	Number	Carbon	Sulfur	Oxygen	Nitrogen	Units

## C, S, O, N IN IRON AND STEEL, CHART 4 of 4

# = class, 1 = CRM and 2 = RM analysis in mass %

#	Number	Carbon	Sulfur	Oxygen	Nitrogen	Units
1	NCS NS11039	0.0051	0.0058	.	.	100 g chips
2	DH E2156	0.00483	0.01515	.	.	50 g chips
1	JSS 1202-4	0.00476	.	.	.	150 g chips
1	NCS NS11041	0.0040	0.0053	.	.	100 g chips
2	DH E2163	0.0036	0.0026	.	.	50 g chips
1	TH 1045-3	0.0024	0.0043	.	0.0047	100 g chips
1	VS U14/5	0.0023	0.0057	.	.	100 g chips
1	JSS 1207-3	0.00221	.	.	.	150 g chips
1	CZ 2025A	0.0020	0.0018	.	.	200 g chips
1	JSS 1206-2	0.00192	.	.	.	150 g chips
2	KMS LCSN-001	0.00169	0.00135	.	0.00045	100 g chips last of stock
1	NCS NS11012	0.0016	0.0063	.	.	100 g chips
1	JSS 1205-3	0.00081	.	.	.	150 g chips
1	SRM 131H	(0.00078)	0.00074	.	.	100 g chips
2	KMS LCSN-001e	0.0009	0.0008	0.0010	0.0005	100 g 1 g pins
1	JSS 1201-4	0.00066	.	.	.	150 g chips
2	KMS LCSN-003a	0.00048	0.00043	.	0.00050	100 g chips
2	KMS HOCs-002	0.0004	0.0010	0.0228	0.0004	100 g 1 g pins
1	JSS 243-7	.	0.379	.	.	150 g chips
1	NCS NS13032	.	0.096	.	.	100 g chips
2	DH E2154	.	0.0472	.	.	50 g chips
1	NCS NS13029	.	0.037	.	.	100 g chips
1	JSS 242-13	.	0.0297	.	.	150 g chips
2	JSM M463-1	.	0.0218	.	.	74 g 0.74 g pins
1	JSS 241-13	.	0.0202	.	.	150 g chips
1	NCS NS13028	.	0.017	.	.	100 g chips
1	NCS NS13027	.	0.0105	.	.	100 g chips
1	JSS 240-14	.	0.0042	.	.	150 g chips last of stock
1	JSS 244-12	.	0.00177	.	.	150 g chips
1	SRM 2168	.	0.00107	.	.	150 g chips
#	Number	Carbon	Sulfur	Oxygen	Nitrogen	Units

## RM OXYGEN IN STEEL SET

no uncertainties, SET ONLY discs 37 mm Ø x 20 mm

Number	O	Number	O
JSM M405a 01a	<0.001	JSM M405a 4a	0.053
JSM M405a 02a	0.018	JSM M405a 5a	0.075
JSM M405a 3a	0.037	JSM M405a 6a	0.12

## OXYGEN AND NITROGEN IN IRON AND STEEL

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#	Number	O	N	Size	Form
2	NS16-1	0.1204	.	50 g	0.5 g pins
2	JSM M403-5	0.13333	0.00059	100 g	1 g pins
1	JSS 389-1	0.052	.	8 rods	5 mm $\phi$ x 230 mm
2	SS-10-18	0.04479	0.00129	50 g	0.5 g pins
1	BAM 029-1	0.0312	0.0083	100 g	3 rods, 8 mm $\phi$ x 80 mm
1	Y TSN012	0.0221	0.0020	25 g	0.5 g balls
1	NCS NS93028	0.0221	0.0020	25 g	0.5 g balls
1	DSZU CA05	0.0202	0.0044	100 g	rods, ~2.8 mm $\phi$ x ~80 mm rods
1	VS 7-9	0.020	0.0043	100 g	rods, ~2.5 mm $\phi$ x ~220 mm
1	JK 35	0.0198	no uncertainty	1 rod	10 mm $\phi$ x 500 mm last of stock
1	JSS 387-2	0.0194	.	8 rods	5 mm $\phi$ x 230 mm L
1	NCS NS11072	0.018	0.0014	50 g	1 g balls
2	JSM M402-6	0.01799	0.01320	100 g	1 g pins
1	JSS 387-1	0.0179	.	8 rods	5 mm $\phi$ x 230 mm, last of stock
2	SS-3-67	0.01694	0.00454	100 g	1 g pins
1	NCS NS20050	0.0166	0.0026	50 g	1 g balls
1	Y TSN005	0.0160	0.0017	50 g	1 g balls
1	DSZU CA08	0.0152	0.0034	50 g	0.5 g pins
1	JSS 386-1	0.0142	.	8 rods	5 mm $\phi$ x 230 mm
1	NCS NS11076	0.014	0.0052	50 g	1 g balls
1	Y TSN006	0.0130	0.0038	50 g	1 g balls
1	VS 7-8	0.0121	0.0072	100 g	rods, ~3 mm $\phi$ x 200 mm
1	DSZU CA06	0.0120	0.0072	100 g	rods, ~2.8 mm $\phi$ x ~80 mm rods
1	NCS NS11050	0.0120	0.0019	50 g	1 g balls
1	Y TSN002	0.0117	0.0023	50 g	1 g balls
1	BAM 028-1	0.0113	0.0029	100 g	3 rods, ~3 mm $\phi$ x ~80 mm
1	VS 7-14/1	0.011	0.0101	100 g	rods, ~4 mm $\phi$ x ~10 mm rods
1	NCS NS11074	0.011	0.0018	50 g	1 g balls
1	Y 41129	0.0108	0.0027	50 g	1 g balls
1	NCS NS11056	0.0107	0.142	50 g	1 g balls
1	NCS NS11076a	0.0102	0.0052	50 g	1 balls
1	VS 7-14/2	0.0103	0.0096	100 g	rods, ~4 mm $\phi$ x ~10 mm rods
1	BCS 318B *	0.0103	.	100 g	1 rod, 12.7 mm $\phi$ x 127 mm * Sale Item
2	SS-2-114	0.01014	0.00202	100 g	1 g pins
1	VS 7-14	0.0100	0.0101	100 g	rods, ~4 mm $\phi$ x ~10 mm rods
1	NCS NS11099	0.010	0.069	50 x 5 mm	$\phi$ balls
1	BCS 318A *	0.0096	.	100 g	2 rods, 6.35 mm $\phi$ x 95 mm * Sale Item
1	BAM 027-1	0.0084	0.0157	100 g	3 rods, 8 mm $\phi$ x 80 mm
1	NCS NS28036a	0.0083	0.0067	50 g	1 balls
1	58A MS51012	0.0079	0.0149	50 g	1 g balls
1	Y TSN007	0.0078	0.0023	50 g	1 g balls
1	JK 34	0.0068	.	1 rod	8 mm $\phi$ x 500 mm each
1	NCS NS11037	0.0066	0.109	25 g	0.5 g pins
1	NCS NS11052	0.0062	0.00075	50 g	1 g balls
1	NCS NS20049	0.0058	0.0040	50 g	1 g balls
1	DSZU CA07	0.0055	0.0292	100 g	rods, ~1.7 mm $\phi$ x ~80 mm rods
1	VS 7-7	0.0055	0.0292	50 g	~1.5 mm $\phi$ x ~115 mm rods
1	NCS NS11064	0.0051	0.028	50 g	1 balls
1	NCS NS93031	0.0044	0.0214	50 g	1 g balls
1	Y TSN009	0.0043	0.0380	25 g	0.5 g balls
1	58A SD51075	0.0043	0.0100	50 g	1 g balls
1	NCS NS11043a	0.0042	0.030	50 g	0.5 g balls
1	NCS NS11096	0.0042	0.022	50 x 6.35	mm $\phi$ balls
1	NCS NS11022	0.0038	0.0820	25 g	0.5 g pins last
1	58A SD51074	0.0037	0.0253	50 g	0.5 g balls
1	NCS NS11070	0.0037	0.0012	50 g	1 g pins
1	NCS NS11069	0.0036	0.0011	50 g	1 g pins
1	NCS NS11073	0.0034	0.019	25 g	0.5 g balls
1	NCS NS28042c	0.0034	0.0042	50 g	1 balls
1	NCS NS11063a	0.0033	0.047	50 g	0.5 g balls
1	NCS NS93030	0.0033	0.0233	50 g	1 g balls
1	BAM 026-1	0.0031	0.0053	100 g	3 rods, 8 mm $\phi$ x 80 mm
1	NCS NS11098	0.0031	0.0030	50 x 6.35	mm $\phi$ balls
1	NCS NS28042a	0.0031	0.0058	50 g	1 balls
1	NCS NS11063	0.0030	0.044	50 g	0.5 g balls
1	NCS NS28042b	0.0030	0.0043	50 g	1 balls
1	NCS NS41007	0.0029	0.0037	20 g	1 g balls
1	Y TSN004	0.0029	0.0036	50 g	1 g balls
1	JK 32	0.0028	.	1 rod	10 mm $\phi$ x 500 mm each
1	NCS NS11063b	0.0028	0.048	50 g	0.5 g balls
1	BAM 026-2	0.0025	0.0042	100 g	3 rods, 8 mm $\phi$ x 80 mm

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#	Number	O	N	Size	Form
1	NCS NS93029	0.0024	0.0826	50 g	1 g balls
1	NCS NS28044b	0.0024	0.0032	50 g	1 balls
1	NCS NS11095	0.0022	0.081	50 x 6.35	mm $\phi$ balls
1	NCS NS11054	0.0023	0.0096	50 g	1 g balls
1	NCS NS20035b	0.0022	0.0061	50 g	1 g balls
1	NCS NS11053	0.0022	0.0032	50 g	1 g balls
1	Y TSN003	0.0021	0.0035	50 g	1 g balls
1	Y TSN008	0.0020	0.0557	25 g	0.5 g balls
1	NCS NS11094	0.0019	0.0062	50 x 6.35	mm $\phi$ balls
1	NCS NS11065	0.0019	0.007	50 g	1 balls
1	NCS NS11044a	0.0018	0.063	50 g	1 balls
1	NCS NS28044a	0.0018	0.002	50 g	1 balls
1	NCS NS20048a	0.0017	0.0070	50 g	1 g balls last of stock
1	JSS 384-2	0.00163	.	8 rods	5 mm $\phi$ x 230 mm L
1	NCS NS11061	0.0016	0.0036	50 g	1 g balls
1	NCS NS11061a	0.0016	0.0031	50 g	1 balls
1	JK 31	0.0015	.	1 rod	8 mm $\phi$ x 500 mm each
1	NCS NS11075	0.0014	0.0089	50 g	1 g balls
1	NCS NS11051	0.0012	0.0045	50 g	1 g balls
1	NCS NS11062	0.0012	0.0022	50 g	1 balls
1	NCS NS21002b	0.00115	0.0055	50 g	1 g balls
2	SS-4-102	0.00114	0.01329	100 g	1 g pins last
1	NCS NS11065a	0.0011	0.0071	50 g	1 balls
1	Y TSN010	0.0011	0.0055	50 g	1 g balls
1	ECRM 267-1	0.00096	0.0266	100 g	1 g pins
2	SS-4-115	0.00095	0.01305	100 g	1 g pins
2	JSM M401-22	0.00092	0.00504	50 g	0.5 g pins
1	VS 7-6	0.0009	0.0067	100 g	~3 mm $\phi$ x ~200 mm rods
1	DSZU CA04	0.00088	0.0067	100 g	rods, ~2.8 mm $\phi$ x ~80 mm rods
1	NCS NS11066a	0.00084	0.0041	50 g	1 balls
1	NCS NS11097	0.0008	0.0072	50 x 6.35	mm $\phi$ balls
1	Y TSN011a	0.00068	0.0091	50 g	1 g balls
1	NCS NS11071	0.00065	0.0068	50 g	1 g balls
1	NCS NS11055C	0.00065	0.0023	50 g	1 balls
1	NCS NS11055	0.00058	0.0028	50 g	1 g balls
1	NCS NS11055b	0.00054	0.0031	50 g	1 balls
1	Y TSN013	0.00049	0.0042	50 g	1 g balls
1	NCS NS11067	0.00044	0.0061	50 g	1 balls
1	NCS NS11066	0.00042	0.005	50 g	1 balls
1	JSS 390-1	0.00042	.	~ 380g	8 Rods 6 mm $\phi$ x 230 mm
1	SRM 1094	0.0004	.	1 rod	0.6 mm $\phi$ x 8.2 cm
1	NCS NS11068	0.0003	0.0028	50 g	1 balls
1	DSZU CA01a	0.00035	0.0029	45 g	0.9 g pins
1	JSS 382-1	0.00026	.	~ 380g	8 Rods 6 mm $\phi$ x 230 mm
1	JSAC 0111	0.00023	.	32 mm $\phi$ x 30	mm disc
1	NCS NS11055a	0.0002	0.0022	50 g	1 balls
1	JSS 381-1	(0.00008)	.	~ 380 g	8 Rods 6 mm $\phi$ x 230 mm
1	ECRM 268-1C	.	2.03	100 g	chips
1	NCS NS11103	.	0.986	50 g	chips
1	NCS NS11106	.	0.84	50 g	chips
1	NCS NS11105	.	0.807	50 g	chips
1	NCS NS11104	.	0.59	50 g	chips
1	NCS NS11102	.	0.564	50 g	chips
1	JSS 370-2	.	0.415	150 g	chips
1	VS 7-22	.	0.398	100 g	chips
1	NCS NS11101	.	0.293	50 g	chips
1	JSS 371-2	.	0.199	150 g	chips
1	VS 7-21	.	0.0241	100 g	chips
2	DH E2126	.	0.0153	50 g	chips last of stock
1	DH E21-261	.	0.0152	50 g	chips
1	VS 7-11	.	0.0152	100 g	chips
1	DSZU CA09	.	0.0105	50 g	0.5 g pins
1	NCS NS13011	.	0.0099	150 g	chips
1	NCS NS13010	.	0.0096	150 g	chips
1	VS 7-3/2	.	0.0093	100 g	chips
1	NCS NS14001	.	0.0081	100 g	chips
1	NCS NS13009	.	0.0078	150 g	chips
1	NCS NS13037	.	0.0067	150 g	chips
1	NCS NS13036	.	0.0064	150 g	chips
1	NCS NS14003	.	0.0048	100 g	chips
1	JSS 367-9	.	0.0044	150 g	chips
1	NCS NS13034	.	0.0044	150 g	chips
1	NCS NS13033	.	0.0043	150 g	chips
1	VS 7-2/2	.	0.0039	100 g	chips
1	VS 7-10	.	0.0038	100 g	chips
1	JSS 366-9	.	0.00065	150 g	chips

**HYDROGEN IN IRON AND STEEL**

analysis listed in mass % except \* which is mg/kg (ppm)

#	Number	H*	C	S	O	N	Size	Form	Comments
1	<b>BS CSONH</b>	8	1.02	0.011	0.116	0.025	100 g	powder	<u>17034</u>
2	SS-5-33	7.3	.	.	.	.	100 g	10 g rods	4 mm Ø x 100 mm each
1	58A HP51012	7.2	.	.	.	.	50 g	1 g balls	
1	NCS NS11082	7.2	.	.	.	.	20 g	1 g pins	
1	CMSI 3012-3	6.5	.	.	.	.	40 g	2 g balls	
1	NCS NS11080	6.4	.	.	.	.	20 g	1 g pins	
1	NCS NS20001a	6.00	.	.	.	.	20 g	1 g balls	
1	JSS GS-7a	6.0	.	.	.	.	8 steel rods	5 mm Ø x 230 mm last of stock	
1	NCS NS11078	5.8	.	.	0.0031	0.031	50 g	1 g balls	
1	58A HP51011	5.8	.	.	0.0033	0.0305	50 g	1 g balls	
1	NM 503	5.4	.	.	.	.	100 g	1 g pins	
1	Y TSH001	4.6	.	.	.	.	50 g	1 g balls	
1	58A HP51010	4.1	.	.	.	.	50 g	1 g balls	
1	NCS NS20042	3.55	.	.	.	.	20 g	1 g balls	
1	58A HP51009	2.9	.	.	.	.	50 g	1 g balls	
1	NCS NS11081	2.7	.	.	.	.	20 g	1 g pins	
1	58A HP51008	2.2	.	.	.	.	50 g	1 g balls	
1	NCS NS11084	2.2	.	.	.	.	20 g	1 g pins	
1	58A NK51085	2.0	.	.	0.0025	0.058	50 g	1 g balls	
1	58A HP51007	1.8	.	.	.	.	50 g	1 g balls	
1	NCS NS11077	1.8	.	.	0.0036	0.034	50 g	1 g balls	
1	58A HP51006	1.6	.	.	0.0038	0.0330	50 g	1 g balls	
1	NM 502	1.5	.	.	.	.	100 g	1 g pins	
1	58A HP51005	1.3	.	.	.	.	50 g	1 g balls	
1	NCS NS11083	1.3	.	.	.	.	20 g	1 g pins	
1	NCS NS20025b	1.1	.	.	.	.	20 g	1 g balls	
2	JSM M481-27	1.01	.	.	.	.	100 g	1 g balls	
1	<b>BS HON-U</b>	1.0	0.050	0.0018	0.0023	0.0254	100 g	1 g balls	<u>34, 17025</u>
1	BAM CRM H1	0.97	.	.	.	.	100 g	1 g pins	
1	58A HP51004	0.9	.	.	.	.	50 g	1 g balls	
2	JSM M481-1	0.9	.	.	.	.	100 g	1 g balls	
1	58A HP51003	0.8	.	.	.	.	50 g	1 g balls	
1	NCS NS11079	0.7	.	.	0.0075	0.0049	50 g	1 g balls	
1	58A HP51002	0.5	.	.	.	.	50 g	1 g balls	

#	Number	H*	C	S	O	N	Size	Form	Comments
1	CZ 2016B	2.15	0.0047	.	.	.	200 g	chips	<u>34, 17025</u>
1	CTIF FB20	2.114	0.128	.	.	.	100 g	chips	
1	CZ 2016A	2.053	0.0048	.	.	.	100 g	chips	
1	NCS NS16001	2.02	0.0014	.	.	.	100 g	chips	last
1	CZ 2015A	1.996	0.0157	.	.	.	100 g	chips	
1	CZ 2015B	1.99	0.017	.	.	.	200 g	chips	<u>34, 17025</u>
1	NCS NS11059	1.95	0.143	.	.	.	50 g	chips	
1	BS CE 216 *	.	0.043	.	.	.	150 g	chips	* clearance sale
1	BS CE 219 *	.	0.038	.	.	.	150 g	chips	* clearance sale
1	BS CE 217 *	.	0.029	.	.	.	150 g	chips	* clearance sale

**CAST IRON CHIPS AND POWDER**

# = class, where 1 = CRM and 2 = RM

#	Number	C%	S%	N%	Units	Comment
1	NH M03	5.63	0.008	.	150 g chips	
1	ECRM 490-1	4.813	0.0040	0.0030	100 g chips	
1	CZ 2024B	4.40	0.047	.	200 g chips	<u>34, 17025</u>
2	DH E2502	4.230	0.0498	.	50 g chips	
1	CZ 2023B	4.06	0.114	.	200 g chips	<u>34, 17025</u>
1	CZ 2023A	4.029	0.0886	.	100 g chips	
1	NCS HC93001	4.01	0.069	.	100 g chips	
1	NCS NS11057	3.98	0.079	.	50 g chips	
1	CZ 2022B	3.86	0.085	.	200 g chips	<u>34, 17025</u>
1	CZ 2021B	3.80	0.043	.	200 g chips	<u>34, 17025</u>
1	NCS NS11058	3.76	0.022	.	50 g chips	
1	VS Ch11/4	3.61	0.0204	.	100 g powder	
1	NCS NS16002	3.60	0.0186	.	100 g chips	
1	VS Ch10/4	3.59	0.085	.	100 g powder	
1	CTIF FB20-2	3.557	0.0614	.	100 g chips	
1	CTIF FB20-1	3.552	0.059	.	100 g chips	
1	CZ 2020B	3.52	0.043	.	200 g chips	<u>34, 17025</u>
1	ECRM 485-3	3.514	0.1488	0.0081	100 g chips	
2	TH 1023-3	3.45	0.0048	.	100 g chips	
2	TH 1050	3.424	0.143	.	100 g chips	
1	CZ 2019B	3.43	0.017	.	200 g chips	<u>34, 17025</u>
2	HRT 530-033	3.33	0.011	.	150 g powder	
2	HRT 530-033A	3.33	0.011	.	1 kg powder	
1	ECRM 492-1	3.258	0.0854	0.0048	100 g chips	
1	CZ 2018A	3.173	0.0142	.	100 g chips	
1	VS Ch22	3.16	0.106	.	100 g powder	
1	CZ 2018B	3.07	0.014	.	200 g chips	<u>34, 17025</u>
1	CTIF FB 13	2.959	0.0973	.	100 g chips	
1	VS Ch9/6	2.94	0.095	.	100 g powder	
1	NCS NS11060	2.93	0.101	.	50 g chips	
1	SRM 334	2.83	0.043	.	150 g chips	
1	CZ 2017B	2.57	0.095	.	200 g chips	<u>34, 17025</u>
1	NCS NS13001	2.51	0.020	.	100 g chips	
1	CZ 2017A	2.463	0.0755	.	100 g chips	

**CRM ALUMINUM IN STEEL**

analysis listed in mass % chips 150 g

Number	Al	B	P	Si
JSS 330-4	0.0063	.	.	.

S, O, N, H, C IN NON-FERROUS METALS

# = class, where 1 = CRM and 2 = RM analysis listed in mg/kg 17025 = ISO Accreditation

#	Number	Material	Carbon	Sulfur	Oxygen	Nitrogen	Hydrogen	Size & Form
1	AA Alu-H2	Aluminum	.	.	.	.	0.068	10 rods, 0.5" Ø x ~24"
1	58A CP54008	Copper	.	94	.	.	.	50 g chips
1	IMN Cu 90-1	Copper	.	83.7	.	.	.	250 g chips
1	58A CP54006	Copper	.	64	.	.	.	50 g chips
1	58A CP54005	Copper	.	53	.	.	.	50 g chips
1	IMN Cu 50-1	Copper	.	49.6	.	.	.	250 g chips last
1	58A CP54007	Copper	.	27	.	.	.	50 g chips
1	IMN Cu S-20	Copper	.	23.1	.	.	.	150 g chips
1	SRM 885	Copper	Ag:5	18	310	Pb:2	.	200 g of 1 g pins Trace As, Bi, Fe, Ni, Sb, Sn, and Zn
1	58A CP54004	Copper	.	13	.	.	.	50 g chips
1	IMN CuS-L	Copper	.	4.24	.	.	.	150 g chips
1	IMN Cu 600/1	Copper	.	.	581	.	.	220 g of rods 6 mm Ø x 105 mm
1	NCS NS11035	Copper	.	.	479	.	.	25 g of 1 g pins
1	BCR 058	Copper	.	.	390	.	.	rod, 7 mm Ø x 50 mm
2	BAM 379/3	Copper	.	.	378	.	.	disc, 40 mm Ø x 30 mm
1	NCS NS11038	Copper	.	.	376	.	.	25 g of 1 g pins
1	NCS NS11034	Copper	.	.	261	.	.	25 g of 1 g pins
2	BAM 379/2	Copper	.	.	212	.	.	disc, 40 mm Ø x 30 mm
1	NCS NS11036	Copper	.	.	208	.	.	25 g of 1 g pins last of stock
1	IMN Cu 100/5	Copper	.	.	163.7	.	.	200 g of rod 20 mm Ø x 100 mm
1	DSZU CA023	Copper	.	.	158	(2.1)	.	50 g of 0.5 g pins
1	BCR 022A	Copper	.	.	138	.	.	disc, 26 mm Ø x 9 mm
1	BCR 022B	Copper	.	.	138	.	.	rod, 9 mm Ø x 50 mm
1	NCS NS11033	Copper	.	.	135	.	.	25 g of 1 g pins
1	IMN Cu 100	Copper	.	.	123	.	.	150 g of rod 5 mm Ø x 100 mm
2	BAM 379/1	Copper	.	.	38	.	.	disc, 40 mm Ø x 30 mm
1	NCS NS11032	Copper	.	.	18	.	.	25 g of 1 g pins
1	NCS NS11031	Copper	.	.	10	.	.	25 g of 1 g pins
1	DSZU CA021	Copper	.	.	7.4	(1.9)	.	50 g of 1 g pins
1	IMN Cu 10/1	Copper	.	.	3.8	.	.	150 g of rod 6 mm Ø x 110 mm
1	NCS NS11030	Copper	.	.	2.8	.	.	rod, 6 mm Ø x 110 mm
1	IMN Cu 10	Copper	.	.	2.1	.	.	150 g of rod 5 mm Ø x 100 mm
1	BCR 054R	Copper	.	.	0.47	.	.	rod, 7 mm Ø x 50 mm
1	IMN Ni-2	Nickel	128	149	.	.	.	100 g chips last of stock
1	SRM 861	Nickel	.	0.561	.	.	.	50 g chips
1	58A HC51001	Nickel	.	.	20	51	.	20 g cube 4mm x 4mm x 5mm
1	58A HC52001	Nickel	.	.	10	6.3	.	20 g cube 4mm x 4mm x 5mm
1	IMN Ag10/1	Silver	.	.	11	.	.	2 rods, 6 mm Ø x 100 mm
1	BCR 275	Zircaloy-4	113	.	1670	39.0	.	10 pcs 13 mm Ø x 1 mm each
1	BCR 276	Zircaloy-4	108	.	1540	41	.	100 pcs 4.5 mm Ø x 2 mm each
1	502-890-0747	Zirconium	145	.	0.141%	20	9.1	200 pieces of of 0.12 g pins 17025

#	Number	Material	Carbon	Sulfur	Oxygen	Nitrogen	Hydrogen	Size & Form
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CRM COPPER PINS analysis listed in mg/kg 50g of 0.31g pins

Number	Ag	As	Bi	Cd	Co	Cr	Fe	Mn	Ni	Pb	S	Sb	Se	Sn	Te	Zn
IMN 001	27.1	3.13	1.39	(0.11)	2.09	3.53	13.9	5.16	3.64	4.02	5.99	2.4	1.34	3.39	1.23	4.57

RM PURITY NICKEL POWDER

certified analysis listed in mg/kg, no uncertainties

informational values

100 g units

Number	Al	C	Cr	Cu	Fe	Mn	Mo	O	P	Pb	S	Si	Ag	As	B	Ba	Be	Bi	Ca	Cd	Co	Ga	H	In	Mg	N	Na	Sb	Se	Sn	Te	Ti	Tl	V	Zn
BS HPN-1	70	268	22	2	202	2	3	1850	5	0.2	4	6	<0.1	<0.5	<2	<1	<1	<0.2	3	<0.1	<2	<0.5	99	<0.2	1	27	4	<0.1	<0.2	<1	<0.2	<1	<0.1	<1	<1

## CRM TITANIUM

analysis listed in mass %

Number	H	C	N	O	S	Units
NCS NS11093	0.027	.	0.0097	0.144	.	5 Rods 2 x 2 x 120 mm
SRM 2454	0.0211	.	.	.	.	10 g chips
SRM 2453a	0.01268	.	.	.	.	10 g of 0.1 g pins
NCS NS11091	0.012	.	0.0095	0.070	.	5 Rods 2 x 2 x 120 mm
SRM 2453	0.0114	.	.	.	.	10 g chips last
NCS NS11092	0.0097	.	0.030	0.130	.	5 Rods 2 x 2 x 120 mm
SRM 2452	0.00559	.	.	.	.	10 g chips
IARM 345A	0.0040	0.010	0.0025	0.120	(0.001)	65 g chips
DSZU CA017	0.0039	.	0.0061	0.151	.	10 g of 0.1 g pins
NCS NS11107	0.0035	.	0.018	0.113	.	100 x 0.15 g pins
IARM 336A	0.0022	0.005	0.0015	0.102	(0.002)	65 g chips
DSZU CA015A (RM)	0.0021	.	0.0054	0.063	.	10 g of 0.1 g pins
DSZU CA016A	0.0018	.	0.007	0.070	.	10 g of 0.1 g pins
IARM 300A	0.0018	0.007	0.0033	0.162	0.0008	65 g chips
NCS NS11090	0.0017	.	0.0034	0.285	.	5 Rods 2 x 2 x 120 mm
DSZU CA018A	0.0016	.	0.013	0.051	.	10 g of 0.1 g pins
DSZU CA019	0.0016	.	0.010	0.24	.	10 g of 0.1 g pins
DSZU CA016B	0.0016	.	0.0039	0.060	.	10 g of 0.1 g pins
IARM 280A	0.0015	0.005	0.0014	0.19	(0.001)	65 g chips
NCS NS11089	0.0014	.	0.0050	0.045	.	5 Rods 2 x 2 x 120 mm
NCS NS11108	0.0014	.	0.0030	0.099	.	100 x 0.15 g pins
IARM 261C	0.001	0.011	0.005	0.085	(0.001)	65 g chips
IARM 261B	(0.001)	0.011	0.004	0.083	(0.0004)	65 g chips
IARM 261E	(0.0005)	0.012	0.006	0.084	(0.001)	65 g chips
IARM 261D	(0.0005)	0.011	0.0051	0.083	(0.001)	65 g chips
BCR 059B	.	.	0.0172	0.1750	.	25 units of 0.2 g cubes
BCR 059A	.	.	0.0172	0.1750	.	disc, 26 mm Ø x 9 mm
58A HCS3003	.	.	0.014	0.124	.	~10 g rods 3 pcs 1.5 x 100 mm
BCR 024B	.	.	0.0117	0.0608	.	25 0.4 g cubes
BCR 024C	.	.	0.0117	0.0608	.	25 0.2 g cubes
NCS NS57102	.	.	0.007	0.073	.	10 g of 0.1 g pins last
<b>BELOW ITEMS ARE SET ONLY, AS GROUPED</b>						
NCS NS20043-4	0.00295	.	0.0089	0.16	.	Rod 100 x 3 x 2 mm
NCS NS20043-1	0.0018	.	0.014	0.18	.	Rod 100 x 3 x 2 mm
NCS NS20043-2	0.0014	.	0.018	0.31	.	Rod 100 x 3 x 2 mm
NCS NS20043-3	0.0010	.	0.0093	0.13	.	Rod 100 x 3 x 2 mm

Number	H	C	N	O	S	Units
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## ORGANIC COMBUSTION SAMPLES

RM unless otherwise noted, 501-/502- CRM are 17025 or 17034 analysis listed in mass %

Part Number	Material and Units	C	S	O	N	H
501-441	SUCROSE 50g	42.10	.	51.42	.	6.48
JSM M454-1	GRAIN 150g	3.73	0.0298	.	.	.
JSM M453-1	GRAIN 150g	3.20	0.0136	.	.	.
JSM M452-1	GRAIN 150g	2.78	0.0110	.	.	.
JSM M451-1	GRAIN 150g	0.93	0.0096	.	.	.
JK 47A	IRON ORE 35g (CRM)	0.370	(0.009)	0.69	0.0062	.

## INORGANIC MATERIALS

# = class, where 1 = CRM and 2 = RM analysis listed in mass % except \* which is mg/kg (ppm)

#	Number	Material and Units	C	S	O	N	Hg*	Heat
1	NCS NS51001a	Tungsten Carbide powder 100g	6.118	.	.	.	.	.
1	BCR 102	Tungsten Carbide 2 to 3 grams	.	.	0.0185	.	.	.
1	COCO BA001	Benzoic Acid 100g of 1g tablets	.	.	.	.	26,450	J and 11,371 BTU
1	SABS CRM100	Benzoic Acid 100g of 1g tablets	.	.	.	.	.	26,448.0 J
2	BCS 190v	Benzoic Acid 100g of 1g tablets	.	.	.	.	.	26,443.2 J
2	BCS 190t	Benzoic Acid 100g crystals	.	.	.	.	.	26,439.7 J
2	BCS 190t tabs	Benzoic Acid 20g of 0.2g tablets	.	.	.	.	.	26,439.7 J
1	SRM 39J	Benzoic Acid 30g powder	.	.	.	.	.	26,434 J

## CRM REFRACTORY SET

available in set/6 only

Number	S	Units
JRRM 1101	0.106	40 g
JRRM 1102	0.293	40 g
JRRM 1103	1.02	40 g
JRRM 1104	1.48	40 g
JRRM 1105	2.89	40 g
JRRM 1106	4.93	40 g