

CATALOGUE CRM

COMBUSTION

2022



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

= class, 1 = CRM and 2 = RM

analysis in mass %

34, 17025 = ISO

#	SYLAB Ref	Carbon	Sulfur	Oxygen	Nitrogen	Units	
1	AR 510-513A	2.41	0.091	.	.	250 g	0.5 g pins
1	NCS NS18016	1.19	0.0080	.	.	100 g	chips
1	ECRM 268-1C	1.134	0.0154	.	2.03	100 g	chips
1	NCS NS18015	1.09	0.018	.	.	100 g	chips
1	AR 889-419J	0.928	0.0020	.	.	454 g	1 g pins
1	NCS NS18014	0.990	0.0041	.	.	100 g	chips
1	AR 953-421G	0.948	0.0010	.	0.0044	150 g	chips
1	NCS NS18013	0.890	0.022	.	.	100 g	chips
1	AR 885-520Z	0.820	0.0055	.	.	454 g	1 g pins
1	NCS NS13026	0.81	.	.	.	100 g	chips
1	AR 875-421J	0.786	0.015	.	.	454 g	1 g rings
1	AR 886-319H	0.729	0.022	.	.	454 g	1 g pins
1	NCS NS13025	0.725	.	.	.	100 g	chips
1	IPT 60A	0.715	0.012	.	.	100 g	chips
1	ECRM 049-1	0.701	0.0040	.	0.0031	100 g	chips
1	AR 874-1119A	0.658	0.0108	.	.	454 g	1 g rings
1	NCS NS13008	0.644	0.068	.	.	100 g	chips
1	NCS NS18012	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	AR 894-416B	0.544	0.0103	.	.	454 g	1 g pins
1	NCS NS18011	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
2	BS CSN 2-1	0.476	0.034	.	0.064	500 g	1 g pins
1	AR 884-420U	0.472	0.0121	.	.	454 g	1 g pins
1	NCS NS28029	0.465	0.020	.	.	100 g	chips

#	SYLAB Ref	Carbon	Sulfur	Oxygen	Nitrogen	Units	
1	NCS NS28005	0.462	0.0096	.	.	100 g	chips
1	AR 952-1120N	0.455	0.029	.	0.0095	150 g	chips
1	NCS NS18010	0.455	0.019	.	.	100 g	chips
2	DH E2184	0.4433	0.0152	.	.	50 g	chips
1	AR 956-320P	0.430	0.261	.	0.0069	150 g	chips

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

= class, 1 = CRM and 2 = RM

analysis in mass %

34, 17025 = ISO

#	SYLAB Ref	Carbon	Sulfur	Oxygen	Nitrogen	Units	
1	ECRM 058-2C	0.424	0.1712	.	0.0107	100 g	chips
1	AR 873-820F	0.423	0.0091	.	.	454 g	1 g rings
1	AR 954-218B	0.417	0.027	.	0.0083	150 g	chips
1	NCS NS28004	0.416	0.022	.	.	100 g	chips
1	NCS NS18009	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	AR 947-620B	0.385	0.104	.	0.0103	150 g	chips
1	NCS NS18008	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	NCS NS93005	0.357	0.018	.	.	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	NCS NS93009	0.310	0.031	.	.	100 g	chips
1	NCS NS93004	0.293	0.040	.	.	100 g	chips
1	NCS NS18006	0.282	0.033	.	.	100 g	chips
1	AR 878-417A	0.272	0.0215	.	.	454 g	1 g rings
1	NCS NS11011	0.235	0.039	.	.	100 g	chips
1	NCS NS93008c	0.233	0.030	.	.	100 g	chips
1	AR 883-719C	0.216	0.0183	.	.	454 g	1 g pins
1	NCS NS13021	0.21	.	.	.	100 g	chips

#	SYLAB Ref	Carbon	Sulfur	Oxygen	Nitrogen	Units
1	NCS NS18005	0.204	0.022	.	.	100 g chips
1	AR 955-719F	0.201	0.025	.	0.0071	150 g chips
2	DH E2218	0.1989	0.0014	.	0.0155	50 g chips
1	NCS NS93014	0.190	0.030	.	.	100 g chips
2	DH E2161	0.1843	0.0043	.	0.0186	50 g chips
1	JK 21	0.1741	0.011	.	0.008	150 g chips
1	AR 872-1221T	0.172	0.0082	.	.	454 g 1 g rings
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	AR 951-1220P	0.168	0.019	.	0.0102	150 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
1	AR 896-1021N	0.165	0.087	.	.	454 g 1 g pins
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
1	AR 957-421K	0.157	0.096	.	0.0077	150 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
1	AR 888-119E	0.134	0.229	.	.	454 g 1 g pins
2	DH E2175	0.1290	0.0181	.	.	50 g chips
1	AR 960-814B	0.121	0.0221	.	0.036	150 g chips

C, S, O, N IN IRON AND STEEL, CHART 3 of 4

= class, 1 = CRM and 2 = RM

analysis in mass %

#	SYLAB Ref	Carbon	Sulfur	Oxygen	Nitrogen	Units
1	NCS NS11086	0.116	0.0020	.	.	100 g chips
1	NCS NS11087	0.113	0.0023	.	.	100 g chips
1	AR 890-320M	0.110	0.0046	.	.	454 g 1 g pins
1	AR 868-818A	0.102	0.0053	.	.	454 g 1 g rings

#	SYLAB Ref	Carbon	Sulfur	Oxygen	Nitrogen	Units	
1	ECRM 286-1	0.100	0.280	.	0.043	100 g	chips
1	NCS NS13020	0.10	.	.	.	100 g	chips
1	AR 514-518D	0.087	0.335	.	.	250 g	0.5 g pins
1	NCS NS11085	0.087	0.0053	.	.	100 g	chips
1	NCS NS18003	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
2	BS CSN A	0.068	0.305	.	0.0081	100 g	chips
1	NCS NS11100	0.066	0.0033	.	0.161	50 g	chips
1	ECRM 294-1C	0.0657	0.00031	.	0.566	100 g	chips
1	AR 511-519A	0.064	0.272	.	.	250 g	0.5 g pins
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 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	NCS NS11026a	0.041	0.0025	.	.	100 g	chips
1	AR 871-521M	0.036	0.015	.	.	454 g	1 g rings
1	ECRM 273-1C	0.0336	0.0004	.	0.0444	100 g	chips
1	AR 870-819A	0.028	0.025	.	.	454 g	1 g rings
1	AR 961-719B	0.0242	0.0100	.	0.046	150 g	powder
2	DH E2179	0.0232	.	.	.	50 g	chips
1	AR 949-320I	0.022	0.032	.	0.0404	150 g	chips
1	AR 513-1216D	0.021	0.387	.	.	250 g	0.5 g pins
1	NCS NS11040	0.019	0.0116	.	.	100 g	chips
1	AR 958-819B	0.0172	0.0227	.	0.0759	150 g	chips
1	AR 869-920K	0.017	0.0026	.	.	454 g	1 g rings
1	AR 945-418A	0.017	0.0004	.	0.341	150 g	chips
1	ECRM 295-1C	0.0166	0.0004	.	0.0615	100 g	chips
1	JK 36	0.0125	0.0126	.	0.0337	150 g	chips
1	SRM 166c	0.00781	.	.	.	100 g	chips
1	AR 892-120E	0.0057	0.0028	.	.	454 g	1 g pins

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

= class, 1 = CRM and 2 = RM

analysis in mass %

#	SYLAB Ref	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	NCS NS11041	0.0040	0.0053	.	.	100 g chips
2	DH E2163	0.0036	0.0026	.	.	50 g chips
1	VS U14/5	0.0023	0.0057	.	.	100 g chips
1	NCS NS11012	0.0016	0.0063	.	.	100 g chips
1	SRM 131H	(0.00078)	0.00074	.	.	100 g chips
1	AR 673-120F	0.0006	0.0016	.	.	454 g 1 g rings
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	NCS NS13028	.	0.017	.	.	100 g chips
1	NCS NS13027	.	0.0105	.	.	100 g chips
1	SRM 2168	.	0.00107	.	.	150 g chips

OXYGEN AND NITROGEN IN IRON AND STEEL

= class, 1 = CRM and 2 = RM

analysis in mass %

#	SYLAB Ref	O	N	Size	Form
1	BAM 029-1	0.0312	0.0083	100 g	3 rods, 8 mm Ø x 80 mm
1	NCS NS93028	0.0221	0.0020	25 g	0.5 g balls
1	NCS NS11072	0.018	0.0014	50 g	1 g balls
1	NCS NS20050	0.0166	0.0026	50 g	1 g balls
1	NCS NS93021	0.0160	0.0017	50 g	1 g balls
1	NCS NS93025	0.0157	0.0018	rod	4.8 mm Ø x 30 cm
1	NCS NS11076	0.014	0.0052	50 g	1 g balls
1	NCS NS93022	0.0130	0.0038	50 g	1 g balls
1	NCS NS93027	0.0120	0.0022	50 x x	1.06 g balls
1	NCS NS11050	0.0120	0.0019	50 g	1 g balls
1	NCS NS93018	0.0117	0.0023	50 g	1 g balls
1	BAM 028-1	0.0113	0.0029	100 g	3 rods, ~3 mm Ø x ~80 mm
1	NCS NS11074	0.011	0.0018	50 g	1 g balls

#	SYLAB Ref	O	N	Size	Form
1	NCS NS11056	0.0107	0.142	50 g	1 g balls
1	NCS NS11076a	0.0102	0.0052	50 g	1 balls
1	NCS NS11099	0.010	0.069	50 x 5 mm	Ø balls
1	BAM 027-1	0.0084	0.0157	100 g	3 rods, 8 mm Ø x 80 mm
1	NCS NS28036a	0.0083	0.0067	50 g	1 balls
1	NCS NS93023	0.0078	0.0023	50 g	1 g balls
1	JK 34	0.0068	.	1 rod	8 mm Ø 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 Ø x ~80 mm
1	NCS NS11064	0.0051	0.028	50 g	1 balls
1	NCS NS93031	0.0044	0.0214	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	Ø balls
1	NCS NS11070	0.0037	0.0012	50 g	1 g pins
1	AR 1651-921G	0.0036	0.0228	100 g	1 g pins
1	NCS NS11069	0.0036	0.0011	50 g	1 g pins
1	AR 1657-115B	0.0034	0.0319	100 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	AR 1647-419K	0.0031	0.140	100 g	1 g pins
1	BAM 026-1	0.0031	0.0053	100 g	3 rods, 8 mm Ø x 80 mm
1	NCS NS11098	0.0031	0.0030	50 x 6.35 mm	Ø balls

OXYGEN AND NITROGEN IN IRON AND STEEL

= class, 1 = CRM and 2 = RM

analysis in mass %

#	SYLAB Ref	O	N	Size	Form
1	NCS NS28042a	0.0031	0.0058	50 g	1 balls
1	NCS NS11063	0.0030	0.044	50 g	0.5 g balls

#	SYLAB Ref	O	N	Size	Form
1	NCS NS28042b	0.0030	0.0043	50 g	1 balls
1	NCS NS41007	0.0029	0.0037	20 g	1 g balls
1	NCS NS93020	0.0029	0.0036	50 g	1 g balls
1	NCS NS11063b	0.0028	0.048	50 g	0.5 g balls
1	JK 32	0.0028	.	1 rod	10 mm Ø x 500 mm each
1	BAM 026-2	0.0025	0.0042	100 g	3 rods 8mm Ø x 80 mm
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	Ø 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	NCS NS93019	0.0021	0.0035	50 g	1 g balls
1	NCS NS11094	0.0019	0.0062	50 x 6.35 mm	Ø 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 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 Ø 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
1	NCS NS11065a	0.0011	0.0071	50 g	1 balls
1	NCS NS93024	0.0011	0.0055	50 g	1 g balls
1	NCS NS93026	0.0011	0.0055	rod	4.8 mm Ø x 30 cm
1	ECRM 267-1	0.00096	0.0266	100 g	1 g pins
1	AR 1658-717D	0.0009	0.0756	100 g	1 g pins
1	DSZU CA04	0.00088	0.0067	100 g	rods, ~2.8 mm Ø x ~80 mm rods
1	NCS NS11066a	0.00084	0.0041	50 g	1 balls
1	AR 644-420S	0.0008	0.0077	100 g	1 g pins
1	NCS NS11097	0.0008	0.0072	50 x 6.35 mm	Ø balls

#	SYLAB Ref	O	N	Size	Form
1	AR 1653-819D	0.0007	0.0030	100 g	1 g pins
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	NCS NS11067	0.00044	0.0061	50 g	1 balls
1	NCS NS11066	0.00042	0.005	50 g	1 balls
1	SRM 1094	0.0004	.	1 rod	0.6 mm Ø x 8.2 cm
1	NCS NS11068	0.0003	0.0028	50 g	1 balls
1	NCS NS11055a	0.0002	0.0022	50 g	1 balls

NITROGEN IN IRON AND STEEL

= class, 1 = CRM 2 = RM

analysis in mass %

#	SYLAB Ref	N	Size	Form
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	NCS NS11101	0.293	50 g	chips
1	JSS 371-2	0.199	150 g	chips
1	DH E21-261	0.0152	50 g	chips
1	NCS NS13011	0.0099	150 g	chips
1	NCS NS13010	0.0096	150 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	NCS NS13034	0.0044	150 g	chips
1	NCS NS13033	0.0043	150 g	chips

HYDROGEN IN IRON AND STEEL

analysis listed in mass %

chips 150 g

#	SYLAB Ref	H*	C	S	O	N	Size	Form	Comments
1	BS CSONH	8	1.02	0.011	0.116	0.025	100 g	powder	17034
1	NCS NS11082	7.2	.	.	.	.	20 g	1 g pins	
1	NCS NS11080	6.4	.	.	.	.	20 g	1 g pins	
1	NCS NS20001a	6.00	.	.	.	.	20 g	1 g balls	
1	NCS NS11078	5.8	.	.	0.0031	0.031	50 g	1 g balls	
1	NCS NS20042	3.55	.	.	.	.	20 g	1 g balls	
1	NCS NS11081	2.7	.	.	.	.	20 g	1 g pins	
1	NCS NS11084	2.2	.	.	.	.	20 g	1 g pins	
1	NCS NS11077	1.8	.	.	0.0036	0.034	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	
1	BS HON-U	1.0	0.050	0.0018	0.0023	0.0254	100 g	1 g balls	34, 17025
1	BAM CRM H1	0.97	.	.	.	.	100 g	1 g pins	
2	AR 546-917C	0.95	.	.	.	.	100 g	1 g pins	
1	NCS NS11079	0.7	.	.	0.0075	0.0049	50 g	1 g balls	

CAST IRON CHIPS AND POWDER

= class, 1 = CRM and 2 = RM

#	SYLAB Ref	C%	S%	N%	Units	Comment
1	ECRM 490-1	4.813	0.0040	0.0030	100 g chips	
2	DH E2502	4.230	0.0498	.	50 g chips	
1	AR 304-120B	4.22	0.0215	.	150 g powder	
1	NCS HC93001	4.01	0.069	.	100 g chips	
1	NCS NS11057	3.98	0.079	.	50 g chips	
1	AR 323-921E	3.89	0.083	.	250 g powder	
1	NCS NS11058	3.76	0.022	.	50 g chips	
1	AR 309-219D	3.62	0.0191	.	150 g powder	
1	NCS NS16002	3.60	0.0186	.	100 g chips	
1	CTIF FB20-2	3.557	0.0614	.	100 g chips	
1	CTIF FB20-1	3.552	0.059	.	100 g chips	

#	SYLAB Ref	C%	S%	N%	Units	Comment
1	ECRM 485-3	3.514	0.1488	0.0081	100 g chips	
1	AR 306-817B	3.48	0.0202	.	150 g powder	
2	HRT 530-033	3.33	0.011	.	150 g powder	
2	HRT 530-033A	3.33	0.011	.	1 kg powder	
1	AR 322-919A	3.32	0.034	.	250 g powder	
1	AR 302-620C	3.31	0.0203	.	150 g powder	
2	AR 300-1012A	3.26	0.021	.	150 g powder	
1	ECRM 492-1	3.258	0.0854	0.0048	100 g chips	
1	AR 315-220H	3.08	0.108	.	150 g powder	
1	CTIF FB 13	2.959	0.0973	.	100 g chips	
1	AR 318-1015C	2.95	0.042	.	150 g powder	
1	NCS NS11060	2.93	0.101	.	50 g chips	
1	SRM 334	2.83	0.043	.	150 g chips	
1	NCS NS13001	2.51	0.020	.	100 g chips	
1	CTIF FB20	2.114	0.128	.	100 g chips	
1	AR 301-1018D	2.01	0.0172	.	150 g powder	
1	NCS NS11059	1.95	0.143	.	50 g chips	
1	AR 299-614B	0.97	0.0102	.	150 g powder	

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

= class, 1 = CRM and 2 = RM

analysis listed in mg/kg

#	SYLAB Ref	Material	Carbon	Sulfur	Oxygen	Nitrogen	Hydrogen	Size & Form	Comment
1	IMN Cu 90-1	Copper	.	83.7	.	.	.	250 g chips	
1	IMN Cu 50-1	Copper	.	49.6	.	.	.	250 g chips last	
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	AR 145-1020L	Copper	.	10	188	.	.	100 g of 1 g pins	
1	AR 147-521L	Copper	.	5	3	.	.	454 g of 1 g pins	
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	

#	SYLAB Ref	Material	Carbon	Sulfur	Oxygen	Nitrogen	Hydrogen	Size & Form
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	IMN Cu 100/5	Copper	.	.	163.7	.	.	200 g of rod 20 mm Ø x 100 mm
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	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	SRM 861	Nickel	.	0.561	.	.	.	50 g chips
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	AR 630-815B	Zirconium	.	.	1490	20	10	10 g of 0.1 g pins

CRM COPPER PINS

analysis listed in mg/kg

50g of 0.31g pins

SYLAB Ref	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

100 g units

SYLAB Ref	Al	C	Cr	Cu	Fe	Mn	Mo	O	P	Pb	S
BS HPN-1	70	268	22	2	202	2	3	1850	5	0.2	4

continued

informational values

100 g units

SYLAB Ref	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	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 %

SYLAB Ref	H	C	N	O	S	Units
AR 592-616A	0.0290	0.0072	.	.	.	25 g of 0.25 g pins
NCS NS11093	0.027	.	0.0097	0.144	.	5 Rods 2 x 2 x 120 mm
SRM 2454	0.0211	.	.	.	.	10 g chips
AR 589-519B	0.0207	0.0083	.	.	.	25 g of 0.25 g pins
SRM 2453a	0.01268	.	.	.	.	10 g of 0.1 g pins
AR 647-220G	0.0122	.	0.0039	0.111	.	10 g of 0.1 g pins
NCS NS11091	0.012	.	0.0095	0.070	.	5 Rods 2 x 2 x 120 mm
AR 588-121B	0.0149	0.008	.	.	.	25 g of 0.25 g pins
SRM 2453	0.0114	.	.	.	.	10 g chips last
AR 587-619A	0.0099	0.008	.	.	.	25 g of 0.25 g pins
NCS NS11092	0.0097	.	0.030	0.130	.	5 Rods 2 x 2 x 120 mm
AR 650-520X	0.0090	.	0.0060	0.100	.	10 g of 0.1 g pins
SRM 2452	0.00559	.	.	.	.	10 g chips
AR 582-319A	0.0052	0.025	.	.	.	25 g of 0.25 g pins
AR 642-521N	0.0052	.	0.0182	0.151	.	10 g of 0.1 g pins
IARM 345A	0.0040	0.010	0.0025	0.120	(0.001)	65 g chips
NCS NS11107	0.0035	.	0.018	0.113	.	100 x 0.15 g pins
AR 651-621R	0.0022	.	0.0071	0.130	.	10 g of 0.1 g pins
AR 586-120D	0.0019	0.020	.	.	.	25 g of 0.25 g pins
NCS NS11090	0.0017	.	0.0034	0.285	.	5 Rods 2 x 2 x 120 mm
AR 631-1019A	0.0016	.	0.0058	0.361	.	10 g of 0.1 g pins
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
AR 641-1021L	0.0003	.	0.0272	0.179	.	10 g of 0.1 g pins
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
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	last	10 g of 0.1 g pins
BELOW ITEMS ARE SET ONLY, AS GROUPED						
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

SYLAB Ref	H	C	N	O	S	Units
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

INORGANIC MATERIALS

= class, 1 = CRM and 2 = RM

analysis listed in mass %

except * which is mg/kg (ppm)

#	SYLAB Ref	Material and Units	C	S	O	N	Hg*	Heat
1	AR 2029	Graphite powder 50g	99.99	.	.	.	.	.
1	AR 308-619B	Ferrochromium power 100g	9.17	0.018	.	.	.	.
1	AR 307-518C	Tungsten Carbide powder 100g	6.17	0.0050	.	.	.	.
1	NCS NS51001a	Tungsten Carbide powder 100g	6.118	.	.	.	.	.
1	BCR 102	Tungsten Carbide 2 to 3 grams	.	.	0.0185	.	.	.
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

ORGANIC COMBUSTION SAMPLES

listed in mass %

#	Part SYLAB Ref	Material	Units	C	S	O	N	H
1	AR 2092	EDTA	50 or 250 g	41.10	.	43.79	9.59	5.52
2	AR KED 1024	Ore	100 g	14.1	5.5	.	.	.
2	AR 4012	Ore	25 g	11.97	0.031	.	.	.
2	AR 4023	Ore	25 g	11.70	0.220	.	.	.
2	AR 4024	Ore	25 g	11.59	0.40	.	.	.
2	AR 4022	Ore	25 g	7.15	0.052	.	.	.
2	AR 4014	Ore	25 g	5.87	0.029	.	.	.
1	AR 4021	Soil 17034	100 g	3.04	0.032	.	.	.
2	AR 4016	Soil	25 g	2.05	2.05	.	.	.
2	AR 4005	Ore	30 g	1.43	1.45	.	.	.
2	AR 4018	Soil	25 g	1.18	1.03	.	.	.
2	AR 4017	Soil	25 g	0.49	0.48	.	.	.
1	JK 47A	Iron Ore	35 g	0.370	(0.009)	0.69	0.0062	.