

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 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	AR 890-320M	0.110	0.0046	.	.	454 g 1 g pins
2	DH E21-211	0.1080	0.0007	.	0.0102	50 g chips
1	VS U17/4	0.106	0.137	.	.	100 g chips
1	AR 868-818A	0.102	0.0053	.	.	454 g 1 g rings
1	NCS NS13020	0.10	.	.	.	100 g chips
2	DH E21-162	0.0974	0.0104	.	0.0079	50 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	AR 514-518D	0.087	0.335	.	.	250 g 0.5 g pins
1	NCS NS11085	0.087	0.0053	.	.	100 g chips
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
2	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
2	CZ 2026A	0.068	0.255	.	.	250 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 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
2	CZ 2003A	0.0402	0.0316	.	0.0046	250 g chips
1	AR 871-521M	0.036	0.015	.	.	454 g 1 g rings
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
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	IARM 214A	0.018	0.002	0.0026	0.27	100 g chips
1	JSS 204-2	0.0178	.	.	.	150 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	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
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 %

#	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
2	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
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 LCSON-001e	0.0009	0.0008	0.0010	0.0005	100 g 1 g pins
1	JSS 1201-4	0.00066	.	.	.	150 g chips
1	AR 673-120F	0.0006	0.0016	.	.	454 g 1 g rings
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

NITROGEN IN IRON AND STEEL

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

#	Number	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	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

CRM ALUMINUM IN STEEL

analysis listed in mass % chips 150 g

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

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BRAMMER STANDARD ONLINE CATALOG - COMBUSTION MATERIALS

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	BS CSONH	8	1.02	0.011	0.116	0.025	100 g	powder	17034
1	DSZU CA033	7.2	.	.	0.0071	0.051	50 g	1 g pins	
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	JSS GS7-2	6.6	.	.	.	.	8 rods	5 mm Ø x 230 mm each	
1	CMSI 3012-3	6.5	.	.	.	.	40 g	2 g balls	
1	NCS NS11080	6.4	.	.	.	.	20 g	1 g pins	
1	DSZU CA034	6.2	.	.	0.0054	0.073	50 g	1 g pins	
1	DSZU CA031	6.1	.	.	0.0025	0.0072	50 g	1 g pins	
1	NCS NS20001a	6.00	.	.	.	.	20 g	1 g balls	
1	TL 2101	6.0	0.0238	(0.0010)	0.0035	0.0964	50 g	0.5 g pins	
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	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	TL 2100	2.6	0.0304	0.0030	0.0042	0.0304	50 g	0.5 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	JSS GS9-2	2.0	.	.	.	.	8 rods	5 mm Ø x 245 mm each	
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	DSZU CA032	1.7	.	.	0.0097	0.0309	50 g	1 g pins	
1	58A HP51006	1.6	.	.	0.0038	0.0330	50 g	1 g balls	
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	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	
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
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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	34, 17025
2	DH E2502	4.230	0.0498	.	50 g chips	
1	AR 304-120B	4.22	0.0215	.	150 g powder	
1	CZ 2023B	4.06	0.114	.	200 g chips	34, 17025
2	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	AR 323-921E	3.89	0.083	.	250 g powder	
1	CZ 2022B	3.86	0.085	.	200 g chips	34, 17025
1	CZ 2021B	3.80	0.043	.	200 g chips	34, 17025
1	NCS NS11058	3.76	0.022	.	50 g chips	
1	AR 309-219D	3.62	0.0191	.	150 g powder	
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	34, 17025
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	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	34, 17025
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	VS Ch22	3.16	0.106	.	100 g powder	
1	AR 315-220H	3.08	0.108	.	150 g powder	
1	CZ 2018B	3.07	0.014	.	200 g chips	34, 17025
1	CTIF FB 13	2.959	0.0973	.	100 g chips	
1	AR 318-1015C	2.95	0.042	.	150 g powder	
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	34, 17025
1	NCS NS13001	2.51	0.020	.	100 g chips	
2	CZ 2017A	2.463	0.0755	.	100 g chips	
1	CZ 2016B	2.15	0.0047	.	200 g chips	34, 17025
1	CTIF FB20	2.114	0.128	.	100 g chips	
2	CZ 2016A	2.053	0.0048	.	100 g chips	
1	NCS NS16001	2.02	0.0014	.	100 g chips	last
1	AR 301-1018D	2.01	0.0172	.	150 g powder	
2	CZ 2015A	1.996	0.0157	.	100 g chips	
1	CZ 2015B	1.99	0.017	.	200 g chips	34, 17025
1	NCS NS11059	1.95	0.143	.	50 g chips	
1	AR 299-614B	0.97	0.0102	.	150 g powder	
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

#	Number	C%	S%	N%	Units	Comment
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S, O, N, H, C IN NON-FERROUS METALS

= class, where 1 = CRM and 2 = RM

analysis listed in mg/kg

#	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	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
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	AR 630-815B	Zirconium	.	.	1490	20	10	10 g of 0.1 g pins

#	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
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
VS 1-2	0.0070	.	0.0037	0.081	.	11 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
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
AR 651-621R	0.0022	.	0.0071	0.130	.	10 g of 0.1 g pins
DSZU CA015A (RM)	0.0021	.	0.0054	0.063	.	10 g of 0.1 g pins
AR 586-120D	0.0019	0.020	.	.	.	25 g of 0.25 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
AR 631-1019A	0.0016	.	0.0058	0.361	.	10 g of 0.1 g pins
DSZU CA016B	0.0016	.	0.0039	0.060	.	10 g of 0.1 g pins
TL 3100 (RM)	0.0015	.	(0.005)	(0.055)	.	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
VS 1-1	0.0007	.	0.005	0.096	.	11 g of 0.1 g pins
AR 641-1021L	0.0003	.	0.0272	0.179	.	10 g of 0.1 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	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
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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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	AR 2029	Graphite powder 50g	99.99	.	.	.	.	.
1	AR 308-619B	Ferrocromium 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	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
JJRM 1101	0.106	40 g
JJRM 1102	0.293	40 g
JJRM 1103	1.02	40 g
JJRM 1104	1.48	40 g
JJRM 1105	2.89	40 g
JJRM 1106	4.93	40 g

ORGANIC COMBUSTION SAMPLES

listed in mass %

#	Part Number	Material	Units	C	S	O	N	H
2	501-441	Sucrose	50 g	42.10	.	51.42	.	6.48
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	.	.	.
2	JSM M454-1	Grain	150 g	3.73	0.0298	.	.	.
2	JSM M453-1	Grain	150 g	3.20	0.0136	.	.	.
1	AR 4021	Soil 17034	100 g	3.04	0.032	.	.	.
2	JSM M452-1	Grain	150 g	2.78	0.0110	.	.	.
2	AR 4016	Soil	25 g	2.05	0.05	.	.	.
2	AR 4005	Ore	30 g	1.43	1.45	.	.	.
2	AR 4018	Soil	25 g	1.18	1.03	.	.	.
2	JSM M451-1	Grain	150 g	0.93	0.0096	.	.	.
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	.