

Price and Availability Listing of Standard Reference Materials



U.S. DEPARTMENT OF COMMERCE

> National Bureau of Standards

IMPORTANT NOTICE TO PURCHASERS AND USERS OF NBS STANDARD REFERENCE MATERIALS

Effective January 1, 1970 the Office of Standard Reference Materials will no longer issue the Quarterly Insert Sheets which were used to update the current issue of the SRM Catalog. Instead a new Standard Reference Material Availability and Price List will be issued semiannually. The format has been changed to improve readability and the List is organized as follows:

- Section I A list of all currently available SRMs arranged by SRM number, together with a brief description and the current price.
- Section II A short description, arranged by catalog category, of all SRMs issued since the effective date of the current catalog and therefore not contained therein. For ease of reproduction, tables have been condensed and are, in general, not in the same format used in the catalog. (Please note that the values shown are nominal values. The actual values certified are given on the Certificate which accompanies the material.) After the description of each SRM the unit of issue and the price is given.
- Section III A list, arranged by SRM number, of all items which have gone out of stock since the effective date of the current catalog. A remarks column gives information concerning alternate SRMs, when the renewal SRM is expected, and similar information. SRMs which are to be discontinued are so marked.

Section IV – Changes in policy, ordering, shipping and information of a general nature.

On or about June 1, 1970 a new reformated SRM Catalog will be issued. It and subsequent issues will be printed without prices therefore obviating the need for an annual catalog. Catalogs and the new Standard Reference Materials Availability and Price List will be mailed automatically to all current customers and those who have completed our Point of Contact Questionnaire.

Extra forms can be obtained from the Office of Standard Reference Materials, National Bureau of Standards, Washington, D.C. 20234.

J. Paul Cali, Acting Chief Office of Standard Reference Materials

January 2, 1970

SECTION I

AVAILABILITY AND PRICE LIST

SRM	Kind	Unit	Price	SRM	Kind	Unit	Price
1b	Limestone, argillaceous	50 g	\$ 32.00	106b	Steel Cr-Mo-Al (Nitralloy G)	150 g	\$ 33.00
3b	White iron	110 g	33.00	107ъ	Cast iron Ni-Cr-Mo	150 g	33.00
4j	Cast iron	150 g	33.00	111b	Steel Ni-Mo (SAE 4620)	150 g	33.00
5 L	Cast iron	150 g	40.50	112	Silicon carbide	85 g	27.00
6f	Cast iron	150 g	33.00	113	Zinc ore (Tri-State concentrate)	50 g	27.00
6g	Cast iron	150 g	36.00	114L	Cement, turbidimetric and fineness std	set	53.00
7g	Cast iron (high phosphorus)	150 g	33.00	115a	Cast iron Cu-Ni-Cr	150 g	33.00
81 10α	Steel bessemer, 0.1C	150 g	33.00	120a	Steel (r18-Nil0 (Ti hearing) (SAF 321)	45 g 150 g	28.00
10g 11h	Steel B.O.H. 0.2C	150 g	33.00	121c	Cast iron (car-wheel)	150 g	33.00
12h	Steel B O H 0.4C	150 0	33.00	124d	Bronze (Cu85-Ph5-Sn5-Zn5) ounce metal	150 0	33.00
13g	Steel B.O.H. 0.6C	150 g	33.00	126b	Steel Ni36 (High nickel)	150 g	33.00
14e	Steel B.O.H. 0.8C	150 g	33.00	127b	Solder (Sn40-Pb60)	150 g	33.00
15g	Steel B.O.H. 0.1C	150 g	33.00	131b	Steel Low-carbon silicon	100 g	27.00
16e	Steel B.O.H. 1.1C	150 g	33.00	132a	Steel Mo5-W6-Cr4-V2	150 g	33.00
17	Sucrose (cane sugar)	60 g	26.00	133a	Steel, stainless (Cr13-Mo0.3-S0.3)	150 g	33.00
19g	Steel A.O.H. 0.2C	150 g	33.00	134a	Steel Mo8-W2-Cr4-V1	150 g	33.00
25C 27e	Iron ore Sibley	100 g	27.00	1300	Tin ore (N E L concentrate)	60 g	26.00
28a	Iron ore, Norrie	50 g	25.00	1392	Steel Cr-Ni-Mo (AISI 8640)	150 g	33.00
306	Steel $C_{\rm T}$ V (SAE 6150)	150 g	33.00	1405	Panzoia said	2.50 6	27.50
301 32e	Steel Ni-Cr (SAE 6150)	150 g	33.00	1400 141h	A cetanilide	2 g 2 g	27.50
33d	Steel Ni-Mo (SAE 4820)	150 g	33.00	1410	Anisic acid	2 g	26.00
36b	Steel Cr2-Mo1	150 g	33.00	143b	Cystine	2 g	29.00
37e	Brass, sheet	150 g	33.00	147	Triphenyl phosphate	2 g	27.50
39i	Benzoic acid, calorimetric	30 g	32.00	148	Nicotinic acid	2 g	23.50
40h	Sodium oxalate, oxidimetric	60 g	26.00	152a	Steel B.O.H. 0.5C, 0.03 Sn	150 g	33.00
41a	Dextrose (glucose)	70 g	26.00	153a	Steel Co8-Mo9-W2-Cr4-V2	150 g	33.00
42f	Tin, freezing-point std.	350 g	27.00	155	Steel Cr0.5-W0.5	150 g	33.00
44e	Aluminum, freezing-point std	200 g	27.00	157a	Nickel silver (Cu58-Nil2-Zn29)	135 g	33.00
45d	Copper, freezing-point std.	450 g	28.00	158a	Bronze, silicon	150 g	33.00
49e	Lead, Ireezing-point std	600 g	28.00	1600	Stainless steel E Cr19-N114-M03	150 g	33.00
51b	Steel, electric furnace 1.2C	150 g	33.00	162a	Monel-type (Ni64-Cu3l)	150 g	33.00
52c	Bronze, cast	150 g	33.00	163	Steel 0.9C, 0.9Mn, 1.0Cr	100 g	40.00
54d	Bearing metal, tin-base	170 g	33.00	168	Co41-Mo4-Nb3-Ta1-W4	150 g	33.00
55e	Ingot iron	150 g	33.00	171	Magnesium-base alloy	100 g	33.00
57	Refined silicon	60 g	29.00	173a	Ti alloy 6A1-4V	100 g	33.00
59a	Ferrosilicon (Si 50%)	50 g	40.00	174	Ti alloy 4AI-4Mn	100 g	33.00
640		100 g	30.30	176	Ti alloy SAF2.5Sn	100 g	33.00
65d	Steel, basic electric, 0.3C	150 g	33.00	178	Steel basic oxygen 0.4C	150 g	33.00
69a 70a	Feldspar potesh	50 g	32.00	181	Lithium ore (Spodumene)	45 g	27.00
71	Calcium molybdate	60 g	29.00	182	Lithium ore (Petalite)	45 g	27.00
72f	Steel Cr-Mo (SAE X4130)	150 g	33.00	184	Bronze, leaded-tin	150 g	33.00
73c	Steel, stainless (Cr13) (SAE420)	150 g	33.00	185d	Acid potassium phthalate	60 g	35.00
82b	Nickel-chromium cast iron	150 g	33.00	1861c	Potassium dihydrogen phosphate	30 g	35.00
83c	Arsenic trioxide, oxidimetric	75 g	26.00	1861Ib	Disodium hydrogen phosphate	30 g	30.00
84h	Acid potassium phthalate, acidimetric	60 g	26.00	187a	Borax	30 g	30.00
850	Aluminum alloy, wrought	75 g	55.00	188	Potassium hydrogen tartrate	60 g	30.00
86c	Aluminum alloy, casting	75 g	33.00	189	Potassium tetroxalate	65 g	30.00
67a 88a	Limestone dolomitic	73 g 50 g	32.00	191	Sodium bicarbonate	30 g	33.00
89	Glass, lead-barium	45 g	27.00	192	Ferrochromium (low carbon)	100 g	45.00
90	Ferrophosphorus	75 g	29.00	198	Silica refractory (0.2% Al ₂ O ₃)	45 g	27.00
91	Glass, opal	45 g	27.00	199	Silica refractory (0.5% Al2O3)	45 g	27.00
92	Glass, low boron	45 g	27.00	217b-5	2,2,4-Trimethylpentane	5 ml	40.00
93	Glass, high boron	45 g	27.00	217b-8S	2,2,4-Trimethylpentane	8 ml	65.00
94b	Zinc-base die-casting alloy	150 g	33.00	2176-25	2,2,4-Trimethylpentane	25 ml	180.00
99a	reiuspar, soda	40 g	32.00	2176-50	2,2,4-1 rimetry pentane	50 ml	330.00
100b	Steel, manganese (SAE T1340)	150 g	33.00	300	Toluidine red toner	40 g	26.00
1011	Chrome refractory	100 g	27.00	302	Raw sienna	45 g 45 g	26.00
1034	Burned magnesite	60 g	27.00	303	Burnt sienna	-5 g 50 g	26.00
105	Steel, high-sulfur 0.2C carbon only	150 g	25.00	304	Raw umber	45 g	26.00

SRM	Kind	Unit	Price	SRM	Kind	Unit	Price
305	Burnt umber	50 g	\$ 26.00	410a	Steel, Cr2-Mo1	ea	\$ 30.00
306	Venetian red	60 g	26.00	413	Steel A.O.H. 0.4C	ea	30.00
307	Metallic brown	60 g	26.00	414	Steel Cr-Mo (SAE 4140)	ea	30.00
308	Indian red	50 g	26.00	417a	Steel B.O.H. 0.4C	ea	30.00
309	Mineral red	65 g	26.00	418	Steel Cr-Mo (SAE X4130)	ea	30.00
310	Bright red oxide	50 g	26.00	420a	Ingot iron	ea	30.00
311	Carbon black (high color)	10 g	26.00	427	Steel Cr-Mo (boron only) (SAE 4150)	ea	30.00
312	Carbon black (all purpose)	20 g	26.00	432	Tin B	ea	35.00
313	Black iron oxide	42 g	26.00	436	Steel special (Cr6-Mo3-W10)	ea	35.00
314	Yellow iron oxide, light lemon	20 g	26.00	437	Steel special (Cr8-Mo2-W3-Co3)	ea	35.00
315	Yellow iron oxide, lemon	20 g	26.00	438	Steel Mo high speed (AISI-SAE-M30)	ea	35.00
316	Yellow iron oxide, orange	25 g	26.00	439	Steel Mo high speed (AISI-SAE-M36)	ea	35.00
317	Yellow iron oxide, dark orange	40 g	26.00	440	Steel special W high speed		25.00
319	Primrose chrome vellow	15 g	26.00	441	(Cr2-W13-C012)	ea	35.00
220	Terrer damas allow	60 6	26.00	441		Ca	55.00
320	Lemon chrome yellow	60 g	26.00	442	Stainless steel Cr16-Ni10	ea	35.00
322	Light chrome orange	65 g 100 g	26.00	443	Stainless steel Cr18.5-Ni9.5	ea	35.00
323	Dark chrome orange	100 g	26.00	445	Stainless steel Cr13-Mo0.9	Ca	55.00
324	Ultramarine blue	37 g	26.00		(Modified AISI 410)	ea	35.00
325	Iron blue	25 a	26.00	116	Staiplass staal C-18-Ni0		
326	Light chrome green	60 g	26.00	440	(Modified AISI 321)	ea	35.00
327	Medium chrome green	50 g	26.00	447	Stainless steel Cr24-Ni13	-u	55.00
328	Dark chrome green	45 g	26.00		(Modified AISI 309)	ea	35.00
335	Steel B.O.H. 0.1C (carbon only)	300 g	27.00	448	Stainless steel Cr9-Mo0.3		
337	Steel B.O.H. 1.1C (carbon only)	300 g	27.00		(Modified AISI 403)	ea	35.00
339	Stainless steel, Cr17-Ni9-0.2Se			449	Stainless steel Cr5.5-Ni6.5	ea	35.00
	(SAE 303Se)	150 g	40.00	450	Stainless steel Cr3-Ni25	ea	35.00
340	Ferroniobium	100 g	45.00	461	Low-alloy steel A	ea	35.00
341	Ductile iron	150 g	33.00	462	Low-alloy steel B	ea	35.00
342	Nodular iron	150 g	33.00	463	Low-alloy steel C	ea	35.00
342a	Nodular iron	150 g	35.00	464	Low-alloy steel D	ea	35.00
343	Stainless steel, CrI6-Ni2 (SAE 431)	150 g	33.00	465	Ingot iron E	ea	35.00
344	Stainless steel, Cr15-Ni7-Mo2-All	150 g	33.00	466	Ingot iron F	ea	35.00
345	Stainless steel, Cr16-Ni4-Cu3	150 g	33.00	467	Low-alloy steel G	ea	35.00
346	Valve steel (Cr22-Ni4-Mn9)	150 g	40.00	468	Low-alloy steel H	ea	35.00
348	Steel Ni26-Cr15 (A286)	150 g	33.00	480	Tungsten - 20% Molybdenum alloy	ea	125,00
349	Nickel-base (Ni57-Co14-Cr20)	150 g	33.00	481	Gold-silver wires	set	130.00
350	Benzoic acid, acidimetric	30 g	26.00	482	Gold-copper wires	set	130.00
332	Unalloyed titanium for hydrogen	20 g	35.00	592	Hydrocarbon blends - Blend No. 1	set	32.00
353	Unalloyed titanium for hydrogen	20 g	35.00	393	Hydrocarbon blends - Blend No. 2	301	52.00
354	Unalloyed titanium for hydrogen	20 g	35.00	594	Hydrocarbon blends - Blend No. 3	set	32.00
356	Titanium alloy, 64 h4V	20 g	40.00	595	Hydrocarbon blends - Blend No. 4	set	32.00
360a	Zircalov-2	100 g	55.00	597	Hydrocarbon blends - Blend No. 5	set	32.00
2704	Zine evide	2.14	22.90	598	Hydrocarbon blends - Blend No. 7	set	32.00
371f	Sulfur	2 Kg 6 kg	38.00	500	Hydrocarbon blands - Bland No. 8	cat	32.00
372g	Stearic acid	3.2 kg	31.00	625	Zinc-base A	ea	50.00
373e	Benzothiazyl disulfide	500 g	39.80	626	Zinc-base B	ea	50.00
375f	Channel black	7 kg	67.00	627	Zinc-base C	ea	50.00
376a	Light magnesia	450 g	25.25	628	Zinc-base D	ea	50.00
377	Phenyl-beta-naphthylamine	600 g	26.75	629	Zinc-base E	ea	50.00
378a	Oil furnace black	7 kg	36.00	630	Zinc-base F	ea	50.00
379	Conducting black	5.5 kg	26.25	631	Zinc spelter (Modified)	ea	50.00
380	Calcium carbonate	6 kg	25.25	641	Ti alloy 8Mn(A)	ea	50.00
381	Calcium silicate	4 kg	25.25	642	Ti alloy 8Mn(B)	ea	50.00
382a	Gas furnace black	7.5 kg	52.00	643	Ti alloy 8Mn(C)	ea	50.00
383	Mercaptobenzothiazole	800 g	33.00	644	Ti alloy 2Cr-2Fe-2Mo(A)	ea	50.00
384	N-tertiary-Butyl-2-benzo-			645	Ti alloy 2Cr-2Fe-2Mo(B)	ea	50.00
	thiazolesulfenamide	800 g	37.00	646	Ti alloy 2Cr-2Fe-2Mo(C) \ldots	ea	50.00
385b	Natural rubber	34 kg	105.00	033	11 alloy 0AF4 V(A)	ea	50.00
386g	Styrene-butadiene type 1500	34 kg	67.00	671	Nickel oxide 1	25 g	35.00
388e	Butyl rubber	34 kg	105.00	672	Nickel oxide 2	25 g	35.00
389	Styrene-butadiene, type 1503	34 kg	54.00	673	High purity platinum	25 g	35.00
391	Acrylonitrile-butadiene rubber	25 kg	105.00	680 L-1	High-purity platinum	ea	190.00
404a	Steel, basic electric	ea	30.00	600 1-2	De al lating	U.L.	170.00
405a	Steel, medium manganese	ea	30.00	681 L-1	Doped platinum	ea	40.00
407a 408a	Steel, chromium-vanadium	ea	30.00	681 L-2	High-nurity zinc	ea	90.00
409h	Steel nickel	ea	30.00	683	Zinc metal	ea	55.00
	,		20.00	685-R	High-purity gold (rod)	ea	55.00

SRM	Kind	Unit	Price	SRM	Kind	Unit	Ртісе
685-W	High-purity gold (wire)	ea	\$ 55.00	953	Neutron density monitor wire	ea	\$ 35.00
700h	Light-sensitive paper	pkg	40.00	975	Sodium chloride - isotopic	0.25 g	40.00
701h	Standard faded strips	booklet	155.00	976	Copper metal - isotopic	0.25 g	40.00
702	Light-sensitive plastic chips	pkg	40.00	977	Sodium bromide	0.25 g	40.00
702	Light-sensitive plastic chips	pkg	40.00	978	Silver nitrate - isotopic	0.25 g	40.00
105	Light-schattive plastic emps	1.0	66.20	979	Chromium nitrate - isotopic	0.25 g	40.00
704a	Internal tearing resistance paper	pkg	56.20	000		0.25 -	40.00
705	Polystyrene, narrow molecular weight	2 g	33.00	980	Magnesium metal - isotopic	0.25 g	40.00
706	Polystyrene, broad molecular weight	18 g	33.00	981-3	Lead - isotopic	set	105.00
710	Soda-lime silica glass	2 lb	52.00	1000	Enameled iron plaques	set	25.00
711	Lead-silica glass	3 lb	75.00	1002b	Hardboard sheet, 4 specimens	set	35.00
712	Mixed alkali lead silicate glass	0.5 lb	38.00	1003	Glass spheres (5-30 micron)	40 g	32.50
712	Dense barium crown glass	0.5 lb	38.00	1010a	Microcopy test chart	set	8.75
714	Alkaline earth alumina silicate glass	0.5 lb	38.00	1011	Portland cement	set	27.50
715	Alkali-free aluminosilicate	200 g	38.00	1013	Portland cement	set	27.50
716	Neutral (borosilicate) glass	250 g	38.00	1014	Portland cement	set	27.50
/10	incutiar (borosincute) glass		10.00	1015	Portland cement	set	27.50
724	Tris(hydroxymethyl)aminomethane	50 g	40.00				
725	Mossbauer Differential Chemical Shift	ea	155.00	1016	Portland cement	set	27.50
726	Selenium	1 lb	45.00	1019	Glass spheres (sieves No.8-18)	100 g	30.50
727	Rubidium chloride	1 g	35.00	1020	Zinc sulfide phosphor	14 g	23.50
728	Zinc	450 g	43.00	1021	Zinc silicate phosphor	28 g	23.50
740	Zinc, freezing-point std.	350 g	70.00	1022	Zinc sulfide phosphor	14 g	23.50
745	Gold, vapor pressure std.	ea	85.00	1023	Zinc-cadmium sulfide phosphor		
803a	Steel A.O.H. 0.6C	ea	30.00	1010	(Ag activator)	14 g	23.50
D803a	Steel A.O.H. 0.6C	ea	35.00	1024	Zinc-cadmium sulfide phosphor	- 6	
804a	Steel hasic electric	ea	30.00	1024	(Cu activator)	14 o	23.50
0014		, cu	50.00	1025	Zinc phosphate phosphor	28 9	23.50
805a	Steel, medium manganese	ea	30.00	1025	Zhe phosphate phosphor	206	25.50
807a	Steel, chromium-vanadium	ea	30.00	1026	Calcium tungstate phosphor	28 g	23.50
808a	Steel, chromium-nickel	ea	30.00	1027	Magnesium tungstate phosphor	28 g	23.50
809b	Steel, nickel	ea	30.00	1028	Zinc silicate phosphor	28 g	23.50
D809b	Steel, nickel	ea	35.00	1029	Calcium silicate phosphor	14 g	23.50
810a	Steel Cr2-Mo1	ea	30.00	1030	Magnesium arsenate phosphor	28 g	23.50
817a	Steel B O H 0 4C	ea	30.00	1031	Calcium halophosphate phosphot	289	23.50
820a	Ingot iron	ea	30.00	1032	Barium silicate phosphor	28 g	23.50
D820a	Ingot iron	ea	35.00	1033	Calcium phosphate phosphor	28 g	23.50
821	Steel Cr-W 0.9C	ea	30.00	1051b	Barium cyclohexanehutyrate	50	31.00
021		Ca	50.00	1057b	Bis(1-phenyl-1 3-butanediono)	56	51.00
827	Steel Cr-Mo (boron only) (SAE 4150)	ea	30.00	10520	ovovanadium (IV)	5 9	31.00
836	Steel, special (Cr6-Mo3-W10)	ea	42.50			56	51.00
D836	Steel, special (Cr6-Mo3-W10)	ea	50.00	1053	Cadmium cyclohexanebutyrate	5 g	31.00
837	Steel, special (Cr8-Mo2-W3-Co3)	ea	42.50	1055Ъ	Cobalt cyclohexanebutyrate	5 g	31.00
D837	Steel, special (Cr8-Mo2-W3-Co3)	ea	50.00	1057ъ	Dibutyltin bis(2-ethylhexanoate)	5 g	31.00
838	Steel Mo high speed (AISI-SAE-M30)	ea	42.50	1059Ъ	Lead cyclohexanebutyrate	5 g	31.00
D838	Steel Mo high speed (AISI-SAE-M30)	ea	50.00	1060a	Lithium cyclohexane butyrate	5 g	31.00
839	Steel Mo high speed (AISI-SAE-M36)	ea	42.50	1061ъ	Magnesium cyclohexanebutyrate	5 g	31.00
D839	Steel Mo high speed (AISI-SAE-M36)	ea	50.00	1062a	Manganous cyclohexanebutyrate	5 g	31.00
840	Steel, special W high speed			1063a	Menthyl borate	5 g	31.00
	(Cr2-W13-Co12)	ea	42.50	1064	Mercuric cyclohexanebutyrate	5 g	31.00
D040				1065b	Nickel cyclohexanebutyrate	5 g	31.00
D840	Steel, special W high speed			10000		55	01.00
	(Cr2-w13-Co12)	ea	50.00	1066a	Octaphenylcyclotetrasiloxane	5 g	31.00
841	Steel w high speed (AISI-SAE-Ti)	ea	42.50	10696	Sodium cyclohexanebutyrate	5 g	31.00
D841	Steel W high speed (AISI-SAE-Ti)	ea	50.00	1070a	Strontium cyclohexanebutyrate	5 g	31.00
845	Steel Cr13-Mo0.9 (Modified AISI 410)	ea	42.50	1071a	Triphenyl phosphate	5 g	31.00
D845	Steel Cr13-Mo0.9 (Modified AISI 410)	ea	50.00	1073ъ	Zinc cyclohexanebutyrate	5 g	31.00
846	Steel Cr18-Ni9 (Modified AISI 321)	ea	42.50	1074a	Calcium 2-ethylhexanoate	5 g	31.00
D846	Steel Cr18-Ni9 (Modified AISI 321)	ea	50.00	1075a	Aluminum 2-ethylhexanoate	5 g	31.00
847	Steel Cr24-Ni13 (Modified AISI 309)	ea	42.50	1076	Potassium erucate	5 g	31.00
D847	Steel Cr24-Ni13 (Modified AISI 309)	ea	50.00	1077a	Silver 2-ethylhexanoate	5 g	31.00
D040	Starl C.O.M. 0.2 (M. 455-4 A101 402)		60.00	1078a	Tris(1-phenyl-1.3-butanediono)	- 0	
D848	Steel Cr9-Mou.3 (Modified AIST 403)	ea	50.00		chromium (111)	5 g	31.00
049 D040	Steel CIS.S-NIG.S	ea	42.50	1050		- 0	
0549	Steel Cr5.5-Nio.5	ea	50.00	1079a	Ins(1-phenyl-1,3-butanediono)		11.00
850	Steel Cr3-N125	ea	42.50	1000	Iron (III)	5 g	31.00
D820	Steel Cr3-N125	ea	50.00	1080	Bis(1-phenyl-1, 3-butanediono)		
911	Cholesterol	0.5 g	30.00	1.000	copper (11)	5 g	31.00
912	Игса	25 g	36.00	1090	Ingot iron	ea	55.00
913	Uric acid	10 g	30.00	1091	Stainless steel (AISI 431)	ea	55.00
914	Creatinine	10 g	36.00	1092	Vacuum-melted steel	ea	55.00
915	Calcium carbonate	20 g	30,00	1093	Valve steel	ea	55.00
044	Distonium milfate teterbedeet	0.6	70.00	1094	Maraging steel	ea	55.00
944	Plutonium sulfate hudatt	0.5 g	10.00	C1100	Cartridge brass A	ea	65.00
948	I Flutonium suffate hydrate	0.25 g	00.50	1101	Cartridge brass P	0.2	65.00
950a 051	Porio soid	25 g	28.25	C1101	Cartridge brass B	ea	65.00
951	10p Porio soid 050 periokad	100 g	55.00	CIIOI	Cartiluge blass B	ca	05.00
952	b bonc aciu, 95% chilicheu	0.25 g	+0.00	1			1

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SRM	Kind	Unit	Price	SRM	Kind	Unit	Price
1102	Cartridge brass C	ea	\$ 65.00	1194	A 286 high-temp alloy	ea	\$ 65.00
C1102	Cartridge brass C	ea	65.00	1203	Inco 713-A high-temp alloy	ea	65.00
1103	Free-cutting brass A	ea	65.00	1210	Zirconium metal A	ea	90.00
C1103	Free-cutting brass A	ea	65.00	1301	Metal coating thickness	ea	29.00
1104	Free-cutting brass B	ea	65.00	1302	Metal coating thickness	ea	29.00
C1104	Free-cutting brass B	ea	65.00	1303	Metal coating thickness	ea	29.00
1105 C 1105	Free-cutting brass C	ea	65.00	1304	Metal coating thickness	ea	29.00
C 1105	r ree-cutting brass C	ea	65.00	1305	Metal coating thickness	ea	29.00
1106	Naval brass A	ea	65.00	1306	Metal coating thickness	ea	29.00
C1106 1107	Naval brass A	ea	65.00	1307	Metal coating thickness	ea	29.00
C1107	Naval brass B	ea	65.00	1300	Metal coating thickness	ea	29.00
1108	Naval brass C	ea	65.00	1310	Metal coating thickness	ea	29.00
C1108	Naval brace C		65.00	1211	Matal section this has		20.00
1108	Red brass A	ea	65.00	1312	Metal coating thickness	ea	29.00
C1109	Red brass A	ea	65.00	1313	Metal coating thickness	ea	29.00
1110	Red brass B	ea	65.00	1314	Metal coating thickness	ea	29.00
C1110	Red brass B	ea	65.00	1315	Metal coating thickness	ea	29.00
1111	Red brass C	ea	65.00	1316	Metal coating thickness	ea	29.00
C1111	Red brass C	ea	65.00	1317	Metal coating thickness	ea	29.00
1112	Gilding metal A	ea	65.00	1318	Metal coating thickness	ea	29.00
C1112	Gilding metal A	ea	65.00	1319	Metal coating thickness	ea	29.00
1113	Gilding metal B	ea	65.00	1320	Metal coating thickness	ea	29.00
C1113	Gilding metal B	ea	65.00	1331	Metal coating thickness	ea	29.00
1114	Gilding metal C	ea	65.00	1332	Metal coating thickness	ea	29.00
1115	Gilding metal C	ea	65.00	1333	Metal coating thickness	ea	29.00
C1115	Commercial bronze A	ea	65.00	1334	Metal coating thickness	ea	29.00
1116	Commercial because D	cu	65.00	1555		ca	25.00
C1116	Commercial bronze B	ea	65.00	1336	Metal coating thickness	ea	29.00
1117	Commercial bronze C	ea	65.00	1338	Metal coating thickness	ea	29.00
C1117	Commercial bronze C	ea	65.00	1339	Metal coating thickness	ea	29.00
1118	Aluminum brass A	ea	65.00	1341	Metal coating thickness	ea	29.00
C1118	Aluminum brass A	ea	65.00	1342	Metal coating thickness	ea	29.00
1119	Aluminum brass B	ea	65.00	1343	Metal coating thickness	ea	29.00
C1119	Aluminum brass B	ea	65.00	1344	Metal coating thickness	ea	29.00
1120	Aluminum brass C	ea	65.00	1345	Metal coating thickness	ea	29.00
C1120	Aluminum brass C	ea	65.00	1346	Metal coating thickness	ea	29.00
1121	Beryllium copper CABRA alloy 165-170	ea	65.00	1351	Metal coating thickness	set (2)	35.00
C1121	Beryllium copper CABRA alloy 165-170	ea	65.00	1352	Metal coating thickness	set (2)	35.00
1122	Beryllium copper CABRA alloy 25-172	ea	65.00	1353	Metal coating thickness	set (2)	35.00
1122	Beryllium copper CABRA alloy 25-172	ea	65.00	1361	Metal coating thickness	set (4)	47.00
1125		ca	03.00	1302		301 (4)	47.00
C1123	Beryllium copper CABRA alloy 10-175	ea	65.00	1363	Metal coating thickness	set (4)	47.00
1131	Solder (Sn40-P060)	ea	50.00	1364	Metal coating thickness	set(4)	47.00
1139	Cast steel 2	ea	65.00	1366	Metal coating thickness	set (4)	47.00
1140	Ductile iron 1	ea	65.00	1367	Metal coating thickness	set (4)	47.00
1141	Ductile iron 2	63	65.00	1371	Gold coating thickness	ea	48.00
1142	Ductile iron 3	ea	65.00	1372	Gold coating thickness	ea	48.00
1143	Blast furnace iron 1	ea	65.00	1373	Gold coating thickness	ea	48.00
1144	Blast furnace iron 2	ea	65.00	1374	Gold coating thickness	ea	48.00
1147	White cast iron	ea	65.00	1375	Gold coating thickness	ea	48.00
1148	White iron	ea	65.00	1376	Gold coating thickness	ea	48.00
1149	White iron	ea	65.00	1377	Gold coating thickness	ea	48.00
1152	Stainless steel B (Cr18-Ni10)	ea	65.00	1378	Gold coating thickness	ea	48.00
1154	Stainless steel D (Cr19-Ni10)	ea	65.00	1381	Gold coating thickness	set (2)	73.00
1155	Stainless steel Cr18-Nil 2-Mo2	ea	65.00	1382	Gold coating thickness	set (2)	73.00
1156	Maraging steel (disk form)	ea	65.00	1383	Gold coating thickness	set (2)	73.00
1159	49% Ni, balance Fe	ea	65.00	1384	Gold coating thickness	set (2)	73.00
1160	00% INI, 4% MO, Dalance Fe	ea	65.00	1385	Gold coating thickness	set (2)	73.00
1165	Ingot iron E	ea	65.00	1398	Gold coating thickness	set (2) set (4)	123.00
1166	least ince E		65.00	1200	Cold section thickness	set (A)	132.00
1167	I ow-allow steel G	ea	65.00	1399	Emittance std 1/2 in disks	ea	123.00
1168	Low-alloy steel H	ea	65.00	1402	Emittance std., 7/8 in. disks	ea	190.00
1170	Selenium steel (0.3% Se)	ea	65.00	1404	Emittance std., 1 in. disks	ea	205.00
1174a	White cast iron (special 1)	ea	65.00	1405	Emittance std., 1 1/8 in. disks	ea	240.00
1175a	White cast iron (special 2)	ea	65.00	1406	Emittance std., 1 1/4 in. disks	ea	255.00
1185	AMS 5360A, AISI 316 alloy	ea	65.00	1407	Emittance std., 2 in. x 2 in	ea	390.00

SRM	Kind	Unit	Price	SRM	Kind	Unit	Price
1409	Emittance std. 1 in x 10 in	63	\$ 755.00	4210	Gamma-ray std., Cobalt-60	ea	\$ 86.00
1408	Emittance std., 1 In. x 10 In	62 62	605.00	4222	Carbon-14(N-Hexadecane)	3 g	55.00
1409	Emittance std. 1/2 in disks	ea	180.00	4222	Cothon 14(N. Heyedecone)	3 a	55.00
1420			100.00	4223	Carbon-14(N-Hexadecane)	3 g	55.00
1421	Emittance std., 7/8 in. disks	ea	180.00	4224	Tin-113-Indium-113	5 g	90.00
1422	Emittance std., 1 in. disks	ea	180.00	4225	NickeL63	4 a	148 50
1423	Emittance std., 1 1/8 in. disks	ea	180.00	4220		76	140.00
1424	Emittance std., 1 1/4 m. disks	ea	180.00	4906	Alpha std., plutonium-238	ea	158.00
1425	Emittance std., 2 m. x 2 m	ca	180.00	4921-C	Sodium-22	3 g	42.00
1427	Emittance std., 3/4 in. x 10 in	ea	, 180.00	4922-E	Sodium-22	og 25 m	48.00
1428	Emittance std., 1/4 in. x 8 in	ea	180.00	4924	Caroon-14 (water)	25 g	40.00
1440	Emittance std., 1/2 in. disks	ea	180.00	4925	Carbon-14 (benzoic acid in toluene)	3 g	48.00
1441	Emittance std., 7/8 in. disks	ea	180.00	4926	Hydrogen-3 (water)	25 g	48.00
1442	Emittance std., 1 in. disks	ea	180.00	4927	Hydrogen-3 (water)	3 g	48.00
1443	Emittance std., 1. 1/8 in. disks	ea	180.00	4929-B	Iron-55	3 g	59.00
1444	Emittance std., 1 1/4 in. disks	ea	180.00	49350	Кгуртоп-85	10 mi	100.00
1445	Emittance std., 2 in. x 2 in	ea	180.00	4940-В	Promethium-147	3 g	60,00
1511	Cyclohexane - dielectric	400 ml	125.00	4941-C	Cobalt-57	5 g	108.00
1591	2,2-0-1sopropylidene-β-L-idofuranose	15 mg	35.00	4943	Chlorine-36	3 g	43.00
1592	2,3-0-1sopropylidene- β -D-threo-pentulose	50 mg	35.00	4947	Hydrogen-3 (tritiated toluene)	4 g	46.00
1593	L-Inositol	250 mg	35.00	4948	Cerium-Praseodymium-144	3.3 g	70.00
1594	Quebrachitol	500 mg	35.00	4950-В	Radium solution std., 10 ⁻⁹	20 g	81.00
1601	Carbon dioxide in nitrogen	cy1	150.00	4951	Radium solution std., 10-11	100 g	48.00
1602	Carbon dioxide in nitrogen	cyl	150.00	4952-A	Radium blank solution	100 g	30.00
1603	Carbon dioxide in nitrogen	cyl	150.00	4953	Radium, 10 ⁻⁸	20 g	81.00
1604	Oxygen in nitrogen	cyl	110.00	4955	Radium solution std., 0.1 μ g	5 g	63.00
1605	Oxygen in nitrogen	cyl	110.00	4956	Radium solution std., 0.2 µg	5 g	63.00
1606	Oxygen in nitrogen	cyl	110.00	4957	Radium solution std., 0.5 µg	5 g	63.00
1607	Oxygen in nitrogen	cyl	110.00	4958	Radium solution std., 1 µg	5 g	63.00
1608	Oxygen in nitrogen	cyl	110.00	4959	Radium solution std., 2 μ g	5 g	63.00
1609	Oxygen in nitrogen	cy1	110.00	4960	Radium solution std., 5 μ g	5 g	63.00
1621	Sulfur in residual fuel oil	100 m1	30.00	4961	Radium solution std., 10 µg	5 g	63.00
1622	Sulfur in residual fuel oil	100 ml	30.00	4962	Radium solution std., 20 µg	5 g	63.00
1651	Zirconium-barium chromate heat source			4963	Radium solution std., 50 µg	5 g	63.00
	powder (ca 350 cal/g)	50 g	55.00	4964-B	Radium solution std., $102 \mu g$	5 g	63.00
1652	Zirconium-barium chromate heat source			4990-В	Carbon-14, Oxalic acid	1 lb	26.50
	powder (ca 390 cal/g)	50 g	55.00	4991-C	Sodium-22	ea	79.00
1653	Zirconium-barium chromate heat source			4995-C	Point-source - Mercury-203	ea	83.00
1000	powder (ca 425 cal/g)	50 g	55.00	4996-B	Point-source - Sodium-22	ea	79.00
1800	Microstandard ion-exchange beads	snae	130.00	4997-D	Point-source - Manganese-54	ea	55.00
2101-5	Color std	set	255.00	4998-E	Point-source - Yttrium-88	ea	77.00
2106	ISCC-NBS color charts	set	5.00	4999-D	Point-source - Cerium-139	ea	60.00
2175	Ethane-d6	5 cm 3	320.00	U-005	Uranium oxide - depleted (U-235)	1 g	42.50
2176	Propane-1,1,1-d3	5 cm ³	1,155.00	U-010	Uranium oxide - enriched (U-235)	1 g	42.50
2186-1	Potassium dihydrogen phosphate	30 g	41.00	U-015	Uranium oxide - enriched (U-235)	1 g	42.50
2186-11	Disodium hydrogen phosphate	30 g	41.00	U-020	Uranium oxide - enriched (U-235)	1 g	43.00
2191	Sodium bicarbonate	30 g	41.00	U-030	Uranium oxide - enriched (U-235)	1 g	43.00
2192	Sodium carbonate	30 g	41.00	U-050	Uranium oxide - enriched (U-235)	1 g	43.00
3200	Secondary std., magnetic tape	ea	695.00	U-100	Uranium oxide - enriched (U-235)	1 g	44.00
4200-B	Gamma-ray std., Cesium-137	ea	60.00	U-150	Uranium oxide - enriched (U-235)	1 g	45.00
4202	Gamma-ray std., Cadmium-109	ea	93.00	U-200	Uranium oxide - enriched (U-235)	1 g	45.50
4203-A	Gamma-ray std., Cobalt-60	ea	70.00	U-350	Uranium oxide - enriched (U-235)	1 g	48.50
4203-B	Gamma-ray std., Cobalt-60	ea	70.00	U-500	Uranium oxide - enriched (U-235)	1 g	50.00
4205	Gamma-ray std., Thorium-228	ea	98.00	U-750	Uranium oxide - enriched (U-235)	1 g	55.50
4206	Gamma-ray std., Thorium-228	ea	98.00	U-800	Uranium oxide - enriched (U-235)	1 g	56.00
4207	Gamma-ray std., Cesium-137	ea	60.00	U-850	Uranium oxide - enriched (U-235)	1 g	57.00
4208	Gamma-ray std., Mercury-203	ea	83.00	U-900	Uranium oxide - enriched (U-235)	1 g	58.00
4209	Gamma-ray std., Yttrium-88	ea	77.00	U-930	Uranium oxide - enriched (U-235)	1 g	59.50

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SECTION II

STANDARD REFERENCE MATERIALS NEW – RENEWALS

Category 3.1.

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SKM	300	shows C 0.114, Mn 0.404, P 0.007, S 0.019, Si 0.258, Cu 0.18, Ni 0.203, Cr 2.17, V 0.004, Mo 0.996. The material is priced at 33.00 per 150 g unit.
SRM	131b	Silicon Steel – low carbon – Chip form has been issued. This material is issued with a Certificate of Analysis for carbon only at 0.0018% . It is priced at \$27.00 for a 100 g unit.
SRM	163	Chromium Steel – Powder form has been issued. The Certificate of Analysis gives the following: C 0.933, Mn 0.897, P 0.007, S 0.027, Si 0.488, Cu 0.087, Ni 0.081, Cr 0.982, Mo 0.029, N 0.007. The material is priced at \$40.00 per 100 g unit.
SRM	101f	Stainless Steel – AISI Type 304L in powder form has been issued with a Provisional Certificate of Analysis for the following composition: C 0.014, Mn 0.085, P 0.007, S 0.008, Si 0.88, Cu 0.029, Ni 10.10, Cr 18.47, V 0.038, Mo 0.008, Co 0.088. The material is priced at \$33.00 per 100 g unit.
SRM	178	Steel – Basic Oxygen Furnace – $0.4C$ – Chip form has been issued with a Provisional Certificate of Analysis. The nominal composition is: C 0.40, Mn 0.82, P 0.012, S 0.013, Si 0.16, Cu 0.032, Ni 0.010, Cr 0.016, V 0.001, Mo 0.002. The material is priced at \$33.00 per 150 g unit.
SRM	160b	Stainless Steel – AISI Type 316 in chip form has been issued with a Provisional Certificate of Analysis. The nominal composition is: C 0.046, Mn 1.64, P 0.020, S 0.018, Si 0.51, Cu 0.172, Ni 12.3, Cr 18.4, V 0.047, Mo 2.38, Co 0.10, N 0.04, Pb 0.001. The material is priced at \$33.00 per 150 g unit. Similar material in solid form is available as SRM 1155.
		Category 3.2.
SRM	1093	Valve Steel – Has been issued with a Provisional Certificate of Analysis and is certified for oxygen at 60 ppm. It is intended primarily for use in neutron activation analysis. The material is priced at \$55.00 for a rod $\frac{1}{4}$ inch (0.6 cm) in diameter and 4 inches (10 cm) long.
SRM	1094	Maraging Steel – Has been issued with a Provisional Certificate of Analysis for oxygen at 4 ppm. It is intended primarily for use with the vacuum or inert gas fusion methods. The material is priced at 55.00 for a 4 inch (10 cm) length, $\frac{1}{4}$ inch (0.6 cm) in diameter.
SRM	1155	Stainless Steel – AISI Type 316 has been issued with a Provisional Certificate of Analysis. The material is a disk $1\frac{1}{4}$ inches (3.1 cm) in diameter and $\frac{3}{4}$ inch (1.9 cm) thick and is intended primarily as a spectrometric standard. The nominal composition is: C 0.046, Mn 1.63, P 0.020, S 0.018, Si 0.50, Cu 0.169, Ni 12.1, Cr 18.4, V 0.047, Mo 2.38, Co 0.10, Pb 0.001. The material is priced at \$65.00 each. Similar material in chip form is available as SRM 160b.

Category 3.3.

SRM

5L

6g 342a 122e

SDM I

CDM

Cast Irons – Chip form SRMs have been issued with a Provisional Certificate of Analysis. Nominal values for each are:

SRM Nos.	Total C	Graph. C	Mn	Р	S	Si	Cu	Ni	Cr	v	Мо	Ti	As	N	Mg
5L	2.59	1.99	0.68	0.280	0.123	1.83	1.01	0.086	0.15	0.036	0.020	0.05		0.006	
6g	2.84	2.00	1.06	.56	.123	1.06	0.50	.136	.37	.06	.035	.06	0.04	.006	
342a	1.86	1.38	0.275	.018	.006	2.73	.14	.06	.034			.020			0.069
122e	3.51	2.78	.528	.349	.074	0.510	.033	.080	(.038)	(.032)	(.001)	(.026)	(.018)	(.009)	

Each of the materials sells as a 150 gram unit. The price is: 5L-\$40.50; 6g-\$36.00; 342a-\$35.00; and 122e-\$33.00.

Category 3.4.

SRM 11

CDM I

1138 Cast Steel Standards – These standards are intended primarily as spectrometric 1139 standards and are sold as chill-cast specimens, 1¼ inches (3.1 cm) square and ½ inch (1.3 cm) thick. They are issued with a Provisional Certificate of Analysis at \$65.00 each. The nominal composition is:

Nos.	C	Mn	P	S	Si	Cu	Ni	Cr	v	Мо
1138	0.120	0.43	0.053	0.053	0.34	0.09	0.10	0.12	0.02	0.05
1139	.792	.98	.011	.013	.85	.40	.9	1.96	0.24	0.51

SRM1140
1141Ductile Iron Standard – These standards are intended primarily for spectro-
metric analysis and are issued as chill-cast specimens 1¼ inches (3.1 cm) square
and ½ inch (1.3 cm) thick. Each sample is issued with a Provisional Certificate
of Analysis and priced at \$65.00. The nominal composition of the standards is:

Nos.	С	Mn	Р	S	Si	Cu	Ni	Cr	V	Мо	Ti	Al	As	Mg	Ce	Y
1140	3.18	0.72	0.007	0.010	1.92	0.10	0.028	0.030	0.030	0.09	0.10	(0.01)	(0.07)	0.019	(0.09)	
1141	3.64	.48	.072	.020	1.11	.21	.54	.14	.009	.05	.013	(.005)	(.04)	.044	(.05)	.04
1142	2.94	.18	.20	.015	3.33	1.0	1.6	.05	.006	.02	.008	(.09)	(.015)	.10	(.015)	.01

SRM1143Blast Furnace and White Iron Standards – Intended primarily for spectrometric
analysis have been issued with a Provisional Certificate of Analysis. These
materials are chill-cast specimens 1¼ inches (3.1 cm) square and ½ inch (1.3
cm) thick with the nominal composition listed below. They are priced at
\$65.00 each.

Nos.	С	Mn	P	S	Si	Cu	Ni	Cr	v	Мо	Ti	As	Те
1143	3.9	0.41	0.16	0.028	1.68	0.14	0.11	0.14	0.008		0.17		(0.019)
1144	4.27	1.33	.11	.021	0.27	.09	.021	.019		(0.007)	.4		(.026)
1147	3.60	0.78	.16	.06	1.31	.23	.070	.093	.03	(.079)	.05	(0.020)	(.018)
1148	2.89	.66	.30		1.82	1.0	.09	.15	.04	(.022)	.05		(.015)
1149	3.28	1.05	.6	.125	1.04	0.50	.14	.36	.05	(.038)	.06	(.033)	(.015)

SRM 1174a 1175a White Cast Iron Standards – renewal – Chill-cast specimens 1¼ inches (3.1 cm) square and ½ inch (1.3 cm) thick issued primarily for use with spectrometric methods of analysis. The Certificate of Analysis shows the following composition:

Nos.	С	Mn	Р	S	Si	Cu	Ni	Cr	V	Мо	Со	Sn	Ti	As	В	Sb	Те	РЬ
1174a	3.46	0.180	0.168	0.168	0.283	0.170	0.035	0.018	0.008	0.008	0.009	0.23	0.011	0.024	0.04	0.17	0.07	(0.01)
1175a	1.98	1.62	.648	.018	3.47	1.50	2.99	2.41	.222	1.49	.11	.025	.35	.19	.005	.02	.009	0.006

Each standard sells for \$65.00.

SRM I

SDM 1

Category 3.5.

- SRM 196 Ferrochromium (low carbon) powder form This is a steel making alloy issued with a Provisional Certificate of Analysis with the following values: C 0.035, Mn 0.28, Si 0.38, Cr 70.87, and V 0.12. The material is issued in 100 g units priced at \$45.00.
- SRM 340 Ferroniobium powder form This steel making alloy is issued with a Provisional Certificate of Analysis having the following values: C 0.060, Mn 1.71, Si 4.39, Nb 57.51, Ta 3.73, Ti 0.89 and P 0.035. The material is priced at \$45.00 per 100 g unit.
- SRM 59a Ferrosilicon powder form Has been issued with a Provisional Certificate of Analysis having a nominal composition of: C 0.04, Mn 0.76, P 0.016, Si 48.2, Cu 0.05, Ni 0.03, Cr 0.08, Al 0.35, B 0.06, Ca 0.04 and Fe 50.0. The material is priced at \$40.00 per 50 g unit.

Category 3.6.

SRM 127b Solder 40Sn-60Pb – powder form – Has been issued with a Provisional Certificate of Analysis. The nominal composition is: Sn 39.3, Sb 0.43, As 0.01, Bi 0.06, Cu 0.011, Ni 0.012, Ag 0.01. The material is priced at \$33.00 per 150 g unit.

Category 3.9.

SRM 1159 1160 Electronic and Magnetic Alloy Standards – These standards are issued in disk form, 1¼ inches (3.1 cm) in diameter and ¾ inch (1.9 cm) thick, intended primarily for calibration of optical emission and x-ray spectrometric methods. They are issued with a Provisional Certificate of Analysis and have a nominal composition of:

Nos.	С	Mn	Р	S	Si	Cu	Ni	Cr	Мо	Со	Fe
1159 1160	0.007 .019	0.30 .55	0.003	0.003	0.32 .37	0.038 .021	48.2 80.3	0.06	0.01 4.3	0.022 .054	51.0 14.3

The materials are priced at \$65.00 each.

Category 3.10.

SRM 1131 Solder 40Sn-60Pb – This standard is issued with a Provisional Certificate of Analysis and has the same nominal composition as SRM 127b, in Category 3.6. This material, however, is in disk form, 1¼ inches (3.1 cm) in diameter and ¾ inch (1.9 cm) thick, intended primarily for calibration of optical emission and x-ray spectrometric methods of analysis. The price is \$50.00 each.

Category 3.18.

- SRM 1051b Barium cyclohexanebutyrate Has been issued with a Certificate of Analysis. It has a nominal composition of 28.7% Ba and is priced at \$31.00 per 5 gram unit.
- SRM 1052b Bis(1-phenyl-1,3-butanediono)oxovanadium (IV) Has been issued with a Certificate of Analysis. It has a nominal composition of 13.0% V and is priced at \$31.00 per 5 gram unit.
- SRM 1055b Cobalt cyclohexanebutyrate Has been issued with a Certificate of Analysis. It has a nominal composition of 14.8% Co and is priced at \$31.00 per 5 gram unit.
- SRM 1057b Dibutyltin bis(2-ethylhexanoate) Has been issued with a Certificate of Analysis. It has a nominal composition of 23.0% Sn and is priced at \$31.00 per 5 gram unit.
- SRM 1059b Lead cyclohexanebutyrate Has been issued with a Certificate of Analysis. It has a nominal composition of 36.7% Pb and is priced at \$31.00 per 5 gram unit.
- SRM 1061b Magnesium cyclohexanebutyrate Has been issued with a Certificate of Analysis. It has a nominal composition of 6.5% Mg and is priced at \$31.00 per 5 gram unit.
- SRM 1066a Octaphenylcyclotetrasiloxane Has been issued with a Certificate of Analysis. It has a nominal composition of 14.1% Si and is priced at \$31.00 per 5 gram unit.
- SRM 1069b Sodium cyclohexanebutyrate Has been issued with a Certificate of Analysis. It has a nominal composition of 12.0% Na and is priced at \$31.00 per 5 gram unit.
- SRM 1073b Zinc cyclohexanebutyrate Has been issued with a Certificate of Analysis. It has a nominal composition of 16.7% Zn and is priced at \$31.00 per 5 gram unit.
- SRM 1077a Silver 2-ethylhexanoate Has been issued with a Certificate of Analysis. It has a nominal composition of 42.6% Ag and is priced at \$31.00 per 5 gram unit.

Category 3.19.

- SRM 148 Nicotinic Acid Micro Analytical Standard Has been issued with a Provisional Certificate of Analysis. This material is furnished as a fine powder of suitable homogeneity for microchemical methods. The nominal composition is: C 58.54, H 4.09, N 11.38. The material is priced at \$23.50 per 2 gram unit.
- SRM 1800 Micro Standard Ion Exchange Beads with Calcium Have been issued with a Provisional Certificate of Analysis. These materials are ion-exchange resins containing known adsorbed quantities of metallic counterions. The actual amount of counterion may be calculated from the diameter of the resin bead. Actual amounts of counterion present will be in the microgram, nanogram and the picogram range. The individual beads are supplied in quantities of 100 or more cast on a glass slide. The price is \$130.00 per slide.

Category 3.20.

- SRM 40h Sodium Oxalate Primary Standard has been issued on a Provisional Certificate of Analysis with an effective purity of 99.95%. This material is priced at \$26.00 per 60 gram unit.
- SRM 41a Dextrose (Glucose) Primary chemical has been issued with a Certificate of Analysis for specific rotation. The material sells for \$26.00 per 70 gram unit.
- SRM 728 Intermediate Purity-Zinc Has been issued with a Provisional Certificate of Analysis for impurities. The nominal values are: Pb 11.1 ppm, Cu 5.7 ppm, Fe 2.7 ppm, Cd 1.1 ppm, Ag 1.1 ppm, Th 0.2 ppm and Sn 0.02 ppm. The material is sold as pellets and is priced at \$43.00 per 450 gram unit.
- SRM 951 Boric Acid Primary Standard Has been issued with a Certificate of Analysis for purity (nominally 100.00%) and isotopic composition of the boron. It is priced at \$55.00 per 100 gram unit.
- SRM 952 Boric Acid B-10 enriched Has been issued with a Certificate of Analysis. The material is nominally 99.97% pure and is certified for Boron isotopic composition with an Absolute Abundance Ratio 10-B/11-B of 18.80. It is priced at \$40.00 per 0.25 gram unit.

Category 3.21.

- SRM 944 Plutonium Sulfate Tetrahydrate Has been issued with a Certificate of Analysis. It is intended as a secondary standard for the assay of Plutonium materials and is nominally 47.50% Pu. It is priced at \$70.00 per 0.5 gram of Pu and is available only to Atomic Energy Commission contractors and licensees. Order forms and further information may be obtained from the Office of Standard Reference Materials, National Bureau of Standards, Washington, D.C. 20234.
- SRM 953 Neutron Density Monitor Wire Standard Has been issued with a Certificate of Analysis for cobalt. The nominal composition is 0.116% cobalt in aluminum. The price is \$35.00 per 1 meter length with longer continuous lengths available upon request.

Category 3.23.

SRM 1604-1609 Certified Gas Standards – Have been issued with a Certificate of Analysis. The nominal composition of the gases is:

SRM No.	Kind	Ce	ertified Value
1604	Oxygen in nitrogen	02	3 ppm
1605	Oxygen in nitrogen	$\overline{O_2}$	10 ppm
1606	Oxygen in nitrogen	$\overline{O_2}$	112 ppm
1607	Oxygen in nitrogen	$\overline{O_2}$	212 ppm
1608	Oxygen in nitrogen	$\overline{0_2}$	978 ppm
1609	Oxygen in nitrogen	$\tilde{O_2}$	20.95 mole percent

Gases are sold in cylinders containing 68 liters at STP. The price is \$110.00 per cylinder.

		Category 5.24.
SRM	911	Cholesterol – Has been issued with a Provisional Certificate of Analysis of 99.4% purity. Its intended use is for standardizing clinical determinations of cholesterol. It is priced at \$30.00 per 0.5 gram unit.
SRM	912	Urea – Has been issued with a Certificate of Analysis at 99.7% purity with an estimated accuracy of 0.1% . Its intended use is for calibration and standardization of procedures employed in clinical analysis. It is priced at \$36.00 per 25 gram unit.
SRM	913	Uric Acid – Has been issued with a Certificate of Analysis. The material is 99.7% pure with an estimated accuracy of 0.1% . Its intended use is for calibration and standardization of procedures employed in clinical analysis. The material is priced at \$30.00 per 10 gram unit.
SRM	914	Creatinine – Has been issued with a Certificate of Analysis. The material is 99.8% pure with an estimated accuracy of 0.1%. Its intended use is for calibration and standardization of procedures employed in clinical analysis. It is priced at \$36.00 per 10 gram unit.
SRM	915	Calcium Carbonate – Has been issued with a Certificate of Analysis. The material is 99.9% pure with a water content of 0.01%. Its intended use is for calibration and standardization of procedures employed to determine calcium in clinical analysis. It is priced at \$30.00 per 20 gram unit.
		Category 3.25.
SRM	680 681	High Purity and Doped Platinum – Have been issued with a Provisional Certificate of Analysis. The nominal composition of impurities (in ppm) of these

tomany 2 21

standards is: SRM Ni Zr Pb Fe Au Mg Rh Nos. Cu Ag Pd Ir 0 0.1 0.2 0.1 0.1 0.2 0.7 1 1.0 1 0.01 4 680 1

0.5

These materials are in the form of wire 0.020 inch (0.5 mm) in diameter and are priced at \$40.00 each for a 4 inch (10 cm) length designated L-1 and \$190.00 each for a 1 meter length designated L-2.

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SRM 682 High-Purity Zinc – Has been issued with a Provisional Certificate of Analysis. It is a special research material of high purity with the following nominal impurity content: Cu 0.042 ppm, Cd 0.1 ppm, Fe 0.1 ppm, Ag 0.02 ppm, and Sn 0.02 ppm. Additionally, upper limits are supplied for 17 other elements. The material is issued in the form of a semicircular bar segment 2¼ inches (5.7 cm) across, 1 inch (2.5 cm) high and ¾ inch (1.9 cm) thick, priced at \$90.00 each.

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SRM 683 Zinc Metal – Has been issued with a Provisional Certificate of Analysis for trace impurities with a total impurity level of about 25 ppm. The nominal concentration of impurities is Pb 11.1 ppm, Cu 5.9 ppm, Fe 2.2 ppm, Ag 1.3 ppm, Cd 1.1 ppm, Tl 0.2 ppm, and Sn 0.02 ppm. Additionally, elements not detected as being present are listed with upper limits for each. The material is issued in the form of a semicircular bar segment 2¼ inches (5.7 cm) across, 1 inch (2.5 cm) high and ¾ inch (1.9 cm) thick, priced at \$55.00 each.

SRM	685	High-Purity Gold – Has been issued with a Provisional Certificate of Analysis for trace impurities. The nominal impurity level of this material is: Cu 0.1 ppm, In 0.007 ppm, Fe 0.3 ppm (wire)–0.2 ppm (rod), oxygen 2 ppm and Ag 0.1 ppm. Additionally, upper limits are given for all other elements detected as being present. The material is available in the form of a rod $\frac{1}{4}$ inch (0.6 cm) in diameter and 1 inch (2.5 cm) long, designated 685-R, or in the form of a wire 1.4 mm in diameter and 4 inches (10 cm) long, designated 685-W. Each is priced at \$55.00.		
		Category 3.26.		
SRM	1621 1622	Sulfur in Residual Fuel Oil $-$ Has been issued with a Certificate of Analysis for sulfur content. Nominally the values are:		
		SRM Nos.		
		1621Sulfur content 1.051622Sulfur content 2.14		
		Each is priced at \$30.00 per 100 ml unit.		
		Category 3.27.		
SRM	480	Tungsten – 20% Molybdenum – Electron Microprobe Standard – Has been issued with a Provisional Certificate of Analysis. The material is a composite disk 6 mm in diameter and 1 mm thick. The central core is tungsten alloy with a nominal composition of W 78.5%, Mo 21.5%. It is surrounded with a pure molybdenum layer and then an electroplated layer of pure tungsten. The standard is priced at \$125.00 each.		
SRM	481	Gold-Silver Wires – For use as electron microprobe standards have been issued with a Certificate of Analysis. The material consists of a set of 6 separate wires 0.5 mm in diameter and 5 cm long including one high-purity gold, one high-purity silver, and 4 alloy standards with nominal compositions of 20, 40, 60, and 80 percent Ag, respectively. Each wire is color coded for clear identification. The set is priced at \$130.00.		
SRM	482	Gold-Copper Wires – For electron microprobe use have been issued with a Certificate of Analysis. The material consists of 6 separate wires 0.5 mm in diameter and 5 cm long, including a high-purity gold and high-purity copper wire and 4 gold-copper alloys with a nominal composition of 20, 40, 60, and 80 percent copper, color coded for easy identification. The set is priced at \$130.00.		
		Category 4.1.		
SRM	191 192	Sodium Bicarbonate – Sodium Carbonate – pH standards have been issued with a Certificate of Analysis for a pH of 10.01 at 25 °C. These materials provide the certified pH when mixed in an equimolar solution. The two materials are priced at \$33.00 each per 30 g unit.		
SRM	2186 I 2186 II	Potassium Dihydrogen Phosphate – Disodium Hydrogen Phosphate – pD stan- dards have been issued with a Certificate of Analysis for a pD of 7.43 at 25 °C in deuterium oxide. These materials provide the certified pD when mixed in a deuterium oxide solvent. These two materials are priced at \$41.00 each per 30 g unit.		

SRM	2191 2192	Sodium Bicarbonate – Sodium Carbonate – pD standards have been issued with a Certificate of Analysis for a pD of 10.74 at 25 °C in deuterium oxide. These materials provide the certified pD when mixed in a deuterium oxide solvent. These two materials are priced at \$41.00 each per 30 g unit.	
		Category 4.4.	
SRM	1651- 1653	Heat Source Powders for Calorimetry – Have been issued. These materials are mixtures of zirconium and barium chromate and are suitable for use as a standard for calorimetry of gasless heat-source (thermite-type) materials. The nominal heating value of each of these standards is:	
		SRM Nos.	Heating Value
		1651 1652 1653	350 cal/g 390 cal/g 425 cal/g
		Each of these materials is priced at \$55.	00 per 50 gram unit.
		Category 4.5.	
SRM	4905	Plutonium-238 – Alpha Standard – H approximate activity level in $2\P$ geom electrodeposited on a 0.010 cm platinum in diameter. The price of this standard i	Has been issued with a Certificate. The letry is 6×10^3 dps. The plutonium is n disk cemented to a monel disk 2.5 cm s \$83.00.
SRM	4906	Plutonium-238 – Alpha Standard – Has been issued with a Certificate. The standard consists of Pu-238 electroplated onto a 0.010 cm thick platinum foil which is cemented to a monel disk 2.5 cm in diameter and 0.16 cm thick. The nominal activity level of this material is 1.4×10^3 to 3.4×10^4 nuclear transforms per sec (4/69) and it is priced at \$158.00 per standard.	
		Distribution of SRM 4905 and 4906 is authorizes them to receive special nuc copy of the purchaser's license be on f	limited to those licensees whose license lear materials, and it is required that a ile at the National Bureau of Standards.
SRM	4222- 4224	Carbon-14 (n-hexadecane) – Has been issued with a Certificate for Beta activity. These materials are sold in flame-sealed ampoules containing 3 ml of solution. The approximate activity level of each standard is:	
		SRM Nos.	Activity
		4222 4223 4224	$4 \times 10^{4} dps/g (6/67) 4 \times 10^{3} dps/g (6/67) 4 \times 10^{2} dps/g (6/67)$
		Each of these standards is priced at \$55	.00.
SRM	4225	Tin-113 – Indium-113 – Has been issu at approximately 1 x 10 ⁵ gammas/sec/ glass ampoule containing 5 ml of solutio	ed with a Certificate for gamma activity $\frac{1}{9}$ (4/68). It is issued in a flame-sealed on and priced at \$90.00.

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SRM 4226 Nickel-63 – Has been issued with a Certificate for gamma activity at approximately 1.5×10^6 nuclear transformations per second per gram. It is issued in a flame-sealed glass ampoule containing 4 ml of solution and priced at \$148.50.

Note: For purchase of these materials (4225 and 4226), it is required that a copy of the purchaser's current AEC By-Product Material License be on file at the National Bureau of Standards.

- SRM 4940-B Promethium-147 Has been issued with a Certificate for Beta activity at approximately 5×10^5 dps/g (11/67). It is sold in a flame-sealed ampoule containing 3 ml of solution and is priced at \$60.00.
- SRM 4935-C Krypton-85 Has been issued with a Provisional Certificate. This material consists of Krypton-85 and inert Krypton contained in a break seal glass ampoule of about 10 ml volume at 1 atmosphere pressure. The Krypton has a nominal activity of 7×10^7 (7/69) nuclear transformations per second per mole. This standard is priced at \$100.00 per ampoule.
- SRM 4941-C Cobalt-57 Has been issued with a Certificate for approximately 3 x 10⁵ nuclear transformations per second per gram. It is issued in a flame-sealed glass ampoule containing 5 ml of solution and priced at \$108.00.
- SRM 4235 Krypton-85 Has been issued with a Provisional Certificate. This material consists of Krypton-85 and inert Krypton contained in a break seal glass ampoule of about 3 ml volume at 1 atmosphere pressure. The Krypton has a nominal activity of 7×10^4 nuclear transforms per second and is priced at \$100.00.
- SRM 4200-B 4202 4205 4206 4207 Gamma-Ray Point-Sources – Have been issued with a Certificate. The material is deposited between two layers of polyester tape and mounted on an aluminum annuli 0.8 cm wide with an outside diameter of 5.5 cm. The material, approximate activity and price are listed below:

4208

4209 4210

SRM Nos.	Material	Activity	Price
4200-В	Cesium-137	6×10^4 gammas/sec (12/68)	\$60.00
4202	Cadmium-109	1×10^5 gammas/sec (12/67)	93.00
4205	Thorium-228	4×10^4 2.62 MeV gammas/sec (8/68)	98.00
4206	Thorium-228	5 x 10 ⁵ 2.62 MeV gammas/sec (8/68)	98.00
4207	Cesium-137	4×10^5 gammas/sec (12/68)	60.00
4208	Mercury-203	6 x 10 ⁵ gammas/sec (6/69)	83.00
4209	Yttrium-88	4 x 10 ⁵ 1.84 MeV gammas/sec (5/69)	77.00
4210	Cobalt-60	2×10^{6} gammas/sec (4/69)	86.00
4991-C	Sodium-22	6 x 10 ⁴ 1.28 MeV gammas/sec (4/69)	79.00
4995-C	Mercury-203	1.5×10^5 gammas/sec (6/69)	83.00
4996-B	Sodium-22	3 x 10 ⁵ 1.28 MeV gammas/sec (4/69)	79.00
4998-E	Yttrium-88	1 x 10 ⁵ 1.84 MeV gammas/sec (5/69)	77.00

SRM 4950-B 4952-A 4953 Radium Solution Standards – These materials have been issued with a Certificate for Radium-226 content and are packaged in flame-sealed ampoules. The sample, size and price are:

SRM Nos.	A Material	Size	Price
4950-В	10 ⁻⁹ g (1956)	20 g sol.	\$81.00
4952-A	Blank Solution	100 g	30.00
4953	8 x 10 ⁻⁹ g (1968)	20 g	81.00

Category 4.6.

- SRM 370d Zinc Oxide Rubber compounding material has been issued. This material has been evaluated for uniformity and imparts the same characteristics to rubber vulcanizates as did previous lots of the material. No certificate is issued. The material is priced at \$33.80 per 2 kg unit.
- SRM 371f Sulfur Rubber compounding material has been issued. This material has been evaluated for uniformity and imparts the same characteristics to rubber vulcanizates as did previous lots of the material. No certificate is issued. The material is priced at \$38.00 per 6 kg unit.
- SRM 372g Stearic Acid Rubber compounding material has been issued. This material has been evaluated for uniformity and imparts the same characteristics to rubber vulcanizates as did previous lots of the material. No certificate is issued. The material is priced at \$31.00 per 600 g unit.
- SRM 382a Gas Furnace Black Rubber compounding material has been issued. This material has been evaluated for uniformity and imparts the same characteristics to rubber vulcanizates as did previous lots of the material. No certificate is issued. The material is priced at \$52.00 per 7.5 kg unit.
- SRM 385b Natural Rubber Has been issued with a Certificate which characterizes the performance of the materials when tested in the prescribed manner. The material is priced at \$105.00 per 34 kg unit.
- SRM 386g Styrene Butadiene Rubber Has been issued with a Certificate which characterizes the performance of the materials when tested in the prescribed manner. The material is priced at \$67.00 per 34 kg unit.
- SRM 388e Butyl Rubber Has been issued with a Certificate which characterizes the performance of the materials when tested in the prescribed manner. The material is priced at \$105.00 per 34 kg unit.
- SRM 391 Acrylonitrile-Butadiene Rubber Has been issued with a Certificate which characterizes the performance of the materials when tested in the prescribed manner. The material is priced at \$105.00 per 25 kg unit.

Category 4.20.

SRM 1002b Hardboard – Has been certified as a standard reference material for surface flammability. This material has a nominal flame spread index of 210. It is priced at \$35.00 per set of 4 specimens of hardboard, each 6 inches (15.2 cm) by 18 inches (45.7 cm), ¼ inch (0.6 cm) thick.

Category 4.21.

SRM1351-
1353Coating Thickness Standards – These materials have been previously issued as
single items and are now available in sets. See the original catalog for descrip-
tion. Sets of two standards are priced at \$35.00 and sets of four standards are
priced at \$47.00.

SRM Nos.	(Sets of Two Standards Mounted on One Card)	
1351	1307 and 1311	
1352	1332 and 1334	
1353	1335 and 1339	
SRM Nos.	(Sets of Four Standards Mounted on One Card)	
1361	1302, 1303, 1305 and 1307	
1362	1306, 1310, 1311 and 1312	
1363	1313, 1314, 1315 and 1316	
1364	1317, 1318, 1319 and 1320	
1365	1331, 1332, 1333 and 1334	
1366	1335, 1336, 1337 and 1338	
1367	1341, 1342, 1343 and 1344	

SRM	1371-	Gold Coating Thickness Standards – (on Fe-Ni-Co glass sealing alloy) – Have
	1374	been issued and are certified for gold thickness. They are available singly priced
SRM	1381-	at \$48.00, in sets of two mounted on one card at \$73.00 and in sets of four
	1383	mounted on one card at \$123.00.
SRM	1398	

SRM Nos.	Nominal Coating Wt. (mg/cm ²)	Nominal Thickness (micro inches)
1371	1.5	30
1372	3.0	60
1373	6.0	120
1374	14.0	280
1381	1.5 and 3.0	
1382	3.0 and 6.0	
1383	6.0 and 17.0	
1398	1.5, 3.0, 6.0 and 17.0	

SRM	1375-	Gold Coating Thickness Standards (on Nickel) – These materials have been
	1378	issued and are Certified for gold thickness. They are available on one card
SRM	1384-	priced at \$73.00, or in sets of four mounted on one card priced at \$123.00.

1386 SRM 1399

SRM Nos.	Nominal Coating Wt. (mg/cm ²)	Nominal Thickness (micro inches)
1375	1.5	30
1376	3.0	60
1377	6.0	120
1378	17.0	350
1384	1.5 and 3.0	
1385	3.0 and 6.0	
1386	6.0 and 17.0	
1399	1.5, 3.0, 6.0 and 17.0	

Category 4.23.

- SRM 3200 Secondary Standard Magnetic Tape Computer Amplitude Reference Has been issued with a Certificate describing the tape performance under specified conditions. The tape is intended for use in the signal amplitude calibration of computer tape recording and reproducing systems. It is priced at \$695.00 per 600 ft. (183 m) reel.
- SRM 1511 Cyclohexane for the determination of dielectric constants Has been issued with a Certificate giving the dielectric constant nominally as 2.015 at 25 °C. The material is priced at \$125.00 per 500 ml unit.

Category 4.27.

- SRM 1591 1,2-0-Isopropylidene-β-idofuranase Has been issued with a Certificate of Analysis for identity, melting point and specific rotation. The material is priced at \$35.00 per 15 mg unit.
- SRM 1592 2,3-0-Isopropylidene-β-threo-pentulose Has been issued with a Certificate of Analysis for identity, melting point and specific rotation. The material is priced at \$35.00 per 50 mg unit.
- SRM 1593 L-Inositol Has been issued with a Certificate of Analysis for identity, melting point and specific rotation. The material is priced at \$35.00 per 250 mg unit.
- SRM 1594 Quebrachitol Has been issued with a Certificate of Analysis for identity, melting point and specific rotation. The material is priced at \$35.00 per 500 mg unit.
- SRM 2175 Ethane- d_6 Has been issued with a Certificate of Analysis. The chemical purity is nominally 99.9 mole percent and isotopic purity is nominally 99.8 atom percent deuterium. The material is priced at \$320.00 per 5 cm³ at STP.
- SRM 2176 Propane-1,1,1-d₃ Has been issued with a Certificate of Analysis. The nominal chemical purity is 99.9 percent and nominal isotopic purity is 99.4 mole percent $CD_3C_2H_5$. The material is priced at \$1155.00 per 5 cm³ at STP.
- SRM 745 Gold-vapor pressure standard Has been issued with a Certificate of Analysis. The material is a wire 6 inches (15.2 cm) long and 1.4 mm in diameter certified for vapor pressure between 1300 °K and 2100 °K. It is priced at \$85.00.

SECTION III

MATERIALS OUT OF STOCK

The Materials listed below have gone out of stock since the last catalog was issued. Since funds and facilities are limited, materials which are out of stock are not always renewed but rather, renewals are based on current needs and funds available. If the material you need is not available, please contact the Office of Standard Reference Materials.

SRM Nos.	KIND	COMMENTS
20f 77 78 102 120a	Steel A.O.H. 0.4C Burned refractory 60% Al_20_3 Burned refractory 70% Al_20_3 Silica brick Phosphate rock	
122d 129b 149 154a 156	Cast iron Steel – hi-sulfur o-Fluorobenzoic acid Titanium dioxide Steel – Cr-Ni-Mo	Renewed with 122e
166b 169 172 370c 371e	Steel – Cr-19, Ni-9 Ni-77, Cr-20 Ferroboron Zinc oxide Sulfur	Renewal available in near future Renewed with 370d Renewed with 371f
372d 374b 382 386f 388d	Stearic acid Tetramethylthiuram disulfide Gas furnace black Styrene-butadiene type 1500 Butyl rubber	Renewed with 372g Renewed with 382a Renewed with 386g Renewed with 388e
390 653 654 802 848	Butyl (Mooney Viscosity only) Titanium – 6Al-4V Titanium – 6Al-4V Steel B.O.H. 0.8C Stainless steel	388e suggested as a substitute 448 and D848 have the same composition
949b 1018 1041 1161 1162	Plutonium metal Calibrated glass spheres Steel – medium carbon (for oxygen) Low alloy steel A Low alloy steel B	Renewal available in near future Replacement available in near future Replacement available in near future
1164 1169 1190 1193 1195	Low alloy steel D Leaded steel Udimet 500 W545 Discaloy 24	Replacement available in near future
1204 1205 1211 1215 1501	Inco 713-B Inco 713-C Zirconium metal B Zircaloy – 2F Permittivity std. – glass 1723	

Nos.	KIND	COMMENTS
15 0 2 4201 4221 4902 4904C	Permittivity std. – fused silica Niobium-94 Mercury-197 Polonium-210 Americium-241	Issued periodically, please write for details.
4935-B 4944-D	Krypton 85 Iodine-125	Renewed with 4935C
4952 4991-B	Blank solution (Radium) Sodium 22	Renewed with 4952A Renewed with 4991-C

CDL

Category 4.25.

Carbon-14 Labeled Sugars - have been discontinued

SRM 1526 thru 1540 – discontinued SRM 1551 thru 1562 – discontinued SRM 1575 – discontinued

SECTION IV

CHANGES IN PURCHASE PROCEDURE

ORDERING

GENERAL

Orders should be addressed to the Office of Standard Reference Materials, National Bureau of Standards, Washington, D.C. 20234, and should give the amount, catalog number and name of the standards requested. For example: 150 g of No. 11h Basic-Open-Hearth Steel, 0.2 percent C. These materials are distributed only in the units listed. Acceptance of orders does not imply acceptance of any provision set forth in this order contrary to the policy, practice or regulations of the National Bureau of Standards of the U.S. Government. Prices as listed in this Catalog are subject to change without notice. Price changes when made are first announced in various NBS publications, especially the Technical News Bulletin, and in announcements mailed to users of these materials. Prices in effect at time of shipment will be billed to the purchaser.

FOREIGN ORDERS

A. Prepaid orders will be processed and shipped within 5 days. (See mode of shipment– Foreign Shipments.) Prepayment may be made by any of the following:

- 1. UNESCO coupons;
- 2. Bankers' draft against U.S. bank;
- 3. Bank to bank transfer on U.S. bank;
- 4. Letter of credit on a U.S. bank;
- 5. International Money Order.

All checks, coupons, etc., should be made payable to the National Bureau of Standards and must be in U.S. dollars.

B. Non-prepaid purchase orders from old customers with established credit will be processed within 10 days. Variations in prices and quantities shipped will be noted on invoices. Upon receipt of goods, payment can be made by any of the methods listed under A.

C. Pro-forma service takes from 6-8 weeks for processing. Customers are urged to use method A or B for fast service. Payment may be by any of the means shown under A above.

TERMS AND SHIPPING

DOMESTIC SHIPMENTS

Shipments of material (except for certain restricted categories, e.g., hydrocarbons, organic sulfur compounds, special nuclear materials, compressed gases and radioactive standards) intended for the United States, Mexico, and Canada are normally shipped prepaid air parcel post (providing that the parcel does not exceed the weight limits as prescribed by Postal Laws and Regulations) unless the purchaser requests a different mode of shipment, in which case the shipment will be sent collect. It is impractical for the Bureau to prepay shipping charges and add this cost to the billing invoice. Hydrocarbons, organic sulfur compounds, compressed gases, rubber compounding materials, radioactive standards and similar materials are shipped express collect. No discounts are given on NBS Standard Reference Materials.

FOREIGN SHIPMENTS

A. Small weight shipments over \$100 in value and prepaid will be shipped by prepaid air parcel post. Shipments exceeding the parcel post weight limit must be handled through an agent (shipping or brokerage firm) located in the U.S. as designated by the purchaser. Parcels will be packed for overseas shipment and forwarded via express collect to the U.S. firm designated as agent.

B. Non-prepaid orders will be shipped by prepaid International Parcel Post, subject to size, weight, and category of material limitations. Any other mode of shipment requested by customer must be paid for by the customer. (Shipments excluded from International Parcel Post for any reason, must be handled through an agent [shipping or brokerage firm] located in the U.S. as designated by the purchaser. These parcels will be packed for overseas shipment and forwarded via express collect to the U.S. firm designated as agent.)

