

**DEPARTMENT OF COMMERCE**  
**BUREAU OF STANDARDS**  
**George K. Burgess, Director**

**ALPHABETICAL INDEX and NUMERICAL LIST  
OF UNITED STATES GOVERNMENT MASTER  
SPECIFICATIONS, PROMULGATED BY THE  
FEDERAL SPECIFICATIONS BOARD**

**(COMPLETE TO JUNE 10, 1927)**

**CIRCULAR OF THE BUREAU OF STANDARDS, No. 319**



# STANDARDS YEARBOOK

1927

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## CHAPTERS

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- II. International Standardizing Agencies.
- III. National Standardizing Agencies.
- IV. Fundamental and Working Standards of the United States of America.
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## ANNOUNCEMENT

**T**HE STANDARDS YEARBOOK represents an effort to present an adequate picture of the diversification and ramification of the standardization movement which has spread throughout the world with astonishing vitality during the 25 years that have elapsed since the establishment of the National Bureau of Standards. It contains outlines of the activities and accomplishments of not only this bureau and other agencies of the Federal Government and the States and municipalities, but also of the American societies and associations of which standardization is a major or very important activity. Descriptions and illustrations are presented of all the fundamental national standards of the United States. Moreover, outlines are given of the various foreign national and the several international standardizing agencies.

In a general review of the standardization movement in America attention is directed to the remarkable growth in the activities of the trade associations, the development of "mass-production" method of factory production, and to the vital interest now being shown in standardization by industrial executives.

Noteworthy in the trend of the development of standards is the process based on the elimination of excess varieties and sizes which is supplementary to the slower process involving technical consideration. A development of no little importance is the substitution of performance, or service, requirements for composition specifications in certain lines of manufacture.

To manufacturers, industrial experts, engineers, and purchasing agents, both governmental and general; to all officers and agencies concerned with standardization, the Standards Yearbook will be most valuable. It will inform the manufacturer of the current standardization movements affecting his industry. It will inform purchasing agents of new standard specifications and will inform the scientist engaged in research as to current research projects which may lead to standardization. To the average reader it will prove a mine of information on the present status and trend of standardization in all fields of industry, commerce, science, and Government, with references to sources of further information.

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BUREAU OF STANDARDS  
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PROMULGATED BY THE  
FEDERAL SPECIFICATIONS BOARD

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## FEDERAL SPECIFICATIONS BOARD

In 1921 the Federal Specifications Board was established for the purpose of coordination and economy in the procurement of material and services used by the Government under specifications prepared in the various branches thereof, to avoid duplication of effort, and for the better utilization of resources and industries. To this board was assigned the duty of compiling and adopting standard specifications for materials and services and of bringing the specifications into harmony with the best commercial practice

wherever conditions permit, bearing in mind the desirability of broadening the field of supply.

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The following specifications have been officially adopted and promulgated by the Federal Specifications Board as United States Government Master Specifications for the mandatory use of all departments and independent establishments of the Government.<sup>1</sup>

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requesting specifications from the Superintendent of Documents the bureau publication number must be stated.<sup>2</sup>

Do not send purchase orders to Bureau of Standards or Federal Specifications Board. Address request, accompanied by cash or money order, to the Superintendent of Documents, Government Printing Office, Washington, D. C.

The price of each printed specification is 5 cents per copy, unless otherwise noted.

<sup>1</sup> Use of specifications indicated by (\*) are mandatory on the War Department, Navy Department, and Marine Corps only, and optional with other departments and establishments of the Government.

<sup>2</sup> The latest revision is shown by small letters, a, b, c, etc. The complete Federal Specifications Board number should be given, thus, 243a ("a" indicates a first revision, "b" a second revision, and so on).

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<sup>1</sup> Bureau of Mines Technical Paper No. 323A.

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<sup>1</sup> Bureau of Mines Technical Paper No. 323A.

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<sup>1</sup> Bureau of Mines Technical Paper No. 323A.

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Paper, blotting, desk, colored	128a	-----	* Peaches, fresh, canned and evaporated (fruits and fruit products)	270	-----
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Paper, blue print, No. 2 grade (sensitized and unsensitized)	180	-----	* Pepper (condiments)	364	-----
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			Pitchers, water, cream and ice, (tableware, silver-plated)	411	-----
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*Pork, fresh, frozen, sausage (meat and meat food products)	267	-----	Rods, copper, bars, shapes, plates, sheets, and strips	467	-----
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*Preserves (fruits and fruit products)	270	-----	Roofing, asphalt saturated rag felt for, and waterproofing	86	C161
*Provisions:			Roofing, asphalt for unsurfaced built-up	88	C168
*Cereals and cereal products	317	-----	Roofing, coal-tar pitch for	80	C157
*Coffee, tea, and cacao products	161	-----	Roofing, coal-tar saturated rag felt for, and waterproofing	81	C156
*Condiments	364	-----	Roofing, construction of built-up, type 3ACS	148	C172
*Dairy products	381a	-----	Roofing, construction of built-up, type 3TCS	151	C175
*Fruits (fresh, canned, and dried) and fruit products	270	-----	Roofing, construction of built-up, type 4ACS	149	C173
*Meat and meat food products	267	-----	Roofing, construction of built-up, type 4AWS	146	C170
*Miscellaneous provisions	389	-----	Roofing, construction of built-up, type 4TCS	152	C176
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*Vegetables (fresh, canned, and dried)	271	-----	Roofing, construction of built-up, type 5AWS	147	C171
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Rubber matting, for use around electrical apparatus or circuits not exceeding 3,000 volts to ground.....	414	C312	Sets, hand saw.....	440	-----
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Rubber packing, wire-insertion....	112a	C234	*Shakers, salt and pepper (glass tableware).....	121a	-----
Rubber packings and gaskets (molded, sheet, and strip).....	111a	C235	Shakers, salt and pepper (tableware, silver-plated).....	411	-----
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Sodium fluoride (insecticide).....	354	-----	Tables and stands, wood.....	478	-----
Solder, silver.....	307	-----	*Tableware, glass.....	121a	-----
Solder, spelter (for brazing).....	306	-----	Tableware, silver-plated.....	411	-----
Solder, tin-lead.....	313	-----	*Tangerines (fruits and fruit products).....	270	-----
Soldering coppers.....	439	-----	Tanks, hot-water (plumbing fixtures for land use) (price, 15 cents).....	448	C310
*Spaghetti (cereals and cereal products).....	317	-----	Tape, friction.....	291	C229
Spelter solder (for brazing).....	306	-----	Tape, rubber-insulating.....	292	C230
Spelter (zinc, slab).....	91a	-----	*Tapioca (cereals and cereal products).....	317	-----
*Spices, ground (condiments).....	364	-----	Tar, coal, pitch for roofing.....	80	C157
Spiegeleisen.....	273	-----	Tar, coal, pitch for waterproofing and damp proofing.....	83	C155
*Spinach, fresh, canned (vegetables).....	271	-----			
Spoons, dessert, soup, tea, and table (tableware, silver-plated)....	411	-----			
Spring bottom, adjustable (Gatch frame).....	189	-----			
*Squash, summer, winter, or Hubbard (vegetables).....	271	-----			

## Alphabetical index of specifications—Continued

Title	Federal Specifications Board specification No.	Bureau of Standards Circular No.	Title	Federal Specifications Board specification No.	Bureau of Standards Circular No.
Tar, coal, saturated rag felt for roofing and waterproofing	81	C156	Unions, malleable iron or steel	393	-----
Tar, refined, for construction	282	-----	Urinals (plumbing fixtures for land use) (price, 15 cents)	448	C310
Tar, refined, for hot application (type TH-1-25)	280	-----	Valves (plumbing fixtures for land use) (price, 15 cents)	448	C310
Tar for use in repair work	281	-----	Valves, rubber	114a	C244
Tars for cold application	279	-----	Vanadium, ferro	135	-----
*Tea, coffee, and cacao products	161	-----	Varnish, asphalt	19	C104
Tent duck (special construction for bleaching or dyeing, grey)	160	C167	Varnish, interior	22	C117
Textile materials, general specification for (methods of physical and chemical tests)	345	C293	Varnish, shellac	376	C303
Thermometers, clinical	309	-----	Varnish, spar, water resisting	18b	C103
Thermometers, industrial	472	-----	*Veal, fresh (meat and meat-food products)	267	-----
Threads, pipe	238	-----	*Vegetables (fresh, canned, and dried)	271	-----
*Thyme (condiments)	364	-----	*Vermicelli (cereals and cereal products)	317	-----
Tin-lead solder	313	-----	*Vinegars (condiments)	364	-----
Tin, phosphor	116	-----	Vitrified chinaware	243a	-----
Tin, pig	90	-----	Walters (tableware, silver-plated)	411	-----
Tips for crutches, rubber	225	C223	Wall board, gypsum	284	C211
Tires, pneumatic, solid rubber and inner tubes	3c	C115	Waste, cotton, colored	263a	C263
Titanium, ferro	144	-----	Waste, cotton, white	262a	C262
Titanium pigment, dry and paste	115	C163	Waste, wool, colored	264a	C266
Titanium-zinc paint, outside white (semipaste and ready mixed)	278	C215	Water closets (plumbing fixtures for land use) (price, 15 cents)	448	C310
*Tomatoes, fresh, canned (vegetables)	271	-----	Water heaters (plumbing fixtures for land use) (price, 15 cents)	448	C316
*Tongue, beef, canned (meat and meat-food products)	267	-----	*Watermelons (fruits and fruit products)	270	-----
Toothbrush	202	-----	Waterproofing, asphalt for, and damp proofing	85	C160
Towels, huck (with woven name)	422	C313	Waterproofing, asphalt primer for roofing and	87	C162
Trays (tableware, silver-plated)	411	-----	Waterproofing, asphalt saturated rag felt for roofing and	86	C161
Trays, office sectional furniture, cabinets, wood	359a	-----	Waterproofing, asphalt-saturated, woven cotton fabric for	294	C287
Tube, colon	236	C221	Waterproofing, coal-tar pitch for and damp proofing	83	C155
Tube, stomach or lavage	237	C220	Waterproofing, coal-tar saturated rag felt for roofing and	81	C156
Tubes, boiler, iron, lap welded charcoal	349	-----	Waterproofing material, integral, water-repellent type (for use with Portland cement mortar or concrete)	444	C322
Tubes, boiler, lap welded and seamless steel	347	-----	Wax, paraffin (lubricants and liquid fuels) (price, 15 cents)	2c	(1)
Tubes, condenser, and tubes for ferrule stock (Admiralty metal)	374	-----	Wax, sealing	420	-----
Tubes, inner, pneumatic and solid tires, rubber	3c	C115	Welding rods, nonferrous for gas welding	269	-----
Tubes, radio receiving electron	410	-----	Wheat, red dog, grain (feeds and forage)	25b	-----
Tubes, seamless steel, for aircraft purposes	490	-----	Wire rope (price, 15 cents)	297	C208
Tubing, brass, seamless	427	-----	Wire, welding, iron and steel	174	-----
Tubing, copper, seamless, and pipe, copper, seamless, standard iron pipe size	287	-----	Wires and cables, rubber covered, for ordinary purposes	65	-----
Tubing, flexible, nonmetallic	57	-----	Wood preservatives, and processes of treatment	395	-----
Tubing, rubber	39b	C305	Wool bunting	497	-----
*Tumbler (glass tableware)	121a	-----	Wool waste, colored	264a	C260
*Tuna fish, canned (sea food)	365a	-----	*Yeast (miscellaneous provisions)	389	-----
Tureens, soup (tableware, silver-plated)	411	-----	Zinc oxide, dry and paste	8	C87
*Turkeys, fresh, chilled and frozen (meat and meat food products)	267	-----	Zinc oxide, leaded, dry, and paste	9	C88
*Turnips, white and yellow (vegetables)	271	-----	Zinc paint, titanium, outside white (semipaste and ready mixed)	278	C215
Turpentine (gum spirits of turpentine and steam distilled wood turpentine)	7b	C86	Zinc, slab (spelter)	91a	-----

<sup>1</sup> Bureau of Mines Technical Paper 323A.

## NUMERICAL LIST OF SPECIFICATIONS

Federal Specifications Board specification No.	Bureau of Standards Circular No.	Title	Federal Specifications Board specification No.	Bureau of Standards Circular No.	Title
1a	C33	Cement, Portland. (Price, 10 cents.)	40b	C290	Gas hose.
2c	( <sup>1</sup> )	Lubricants and liquid fuels and methods for testing. (Price, 15 cents.)	41b	C307	Hose, pneumatic.
			42	-----	Dredging sleeves.
			43	-----	Air-brake and signal hose and gaskets.
3c	C115	Tires, pneumatic and solid rubber, and inner tubes.	44b	C289	Divers' hose.
4a	C82	Oil, linseed, raw.	45	-----	Spray hose.
5	C84	Basic carbonate white lead, dry and paste.	46c	C288	Hose, tender (corrugated).
			47	-----	Chemical hose.
6	C85	Basic sulphate white lead, dry and paste.	48b	C291	Water and wash deck hose.
			49b	C268	Steam hose.
			50a	C292	Water suction hose (smooth bore).
7b	C86	Turpentine (gum spirits of turpentine and steam-distilled wood turpentine).	51	-----	Rubber jar rings.
8	C87	Zinc oxide, dry and paste.	52	C140	Wood screws.
9	C88	Leaded zinc oxide, dry and paste.	53	C136	Numbered cotton duck.
10	C89	White paint and tinted paints made on a white base, semi-paste and ready mixed.	54	-----	Asbestos millboard.
			55	-----	Cutout bases.
			56	-----	Nonrefillable cartridge inclosed fuses.
11	C90	Red lead, dry and paste.	57	-----	Flexible nonmetallic tubing.
12	C91	Ocher, dry and paste.	58	C139	Dry cells.
13	C93	Iron oxide and iron hydroxide paints.	59a	C232	General specifications for rubber goods (methods of physical tests and chemical analysis). (Price, 10 cents.)
14	C94	Black paint, semipaste and ready mixed.		-----	Insulated safes and cabinets.
15	C97	Green paint, semipaste and ready mixed.	60	-----	
16	C98	Volatile mineral spirits for thinning paints.	61a	C324	Rope, Manila.
17	C102	Composite vehicle for thinning semipaste paints when the use of straight linseed oil is not justified.	62	-----	Snap switches.
			63b	C209	Hose, oil suction and discharge.
			64a	C284	Rubber bands.
			65	-----	Rubber-covered wires and cables for ordinary purposes.
18b	C103	Varnish, spar, water resisting.	66	C146	Water-resisting red enamel.
19	C104	Asphalt varnish.	67	C147	Gloss interior lithopone paint, white and light tints.
20	C105	Liquid paint drier.		-----	Sterilizers, dressing containers and stands, portable lockers for use in conjunction with sterilizers, electric heaters, and steam sterilizing apparatus.
21	C111	Flat interior lithopone paint, white and light tints.	68a	-----	Canceled Apr. 8, 1926.
22	C117	Interior varnish.		-----	Do.
23	C13	Large tungsten filament incandescent electric lamps.		-----	Do.
24	-----	Lumber (grading and inspection rules, adopted by the various lumber manufacturing associations of the United States).	69	-----	Cottonseed oil (edible grade).
			70	-----	Canceled Apr. 8, 1926.
25b	-----	Feeds and forage.	71	-----	Do.
			72	-----	Do.
26	C123	White floating soap (for toilet use).	73	-----	Canceled Apr. 8, 1926.
27	C124	Liquid soap.	74	-----	Do.
28	C125	Soap powder.	75	-----	Do.
29	C126	Salt water soap.	76	-----	Do.
30	C127	Automobile soap.	77	-----	Olive oil (edible grade).
			78	-----	Canceled Apr. 8, 1926.
			79	-----	Do.
31	C128	Chip soap.	80	C157	Coal-tar pitch for roofing.
32	C129	Ordinary laundry soap.		-----	
33a	C130	Soap, grit cake.	81	C156	Coal-tar saturated rag felt for roofing and waterproofing.
34	C131	Scouring compounds, for floors, and soap scouring compound.	82	C158	Surfacing materials for bituminous built-up roofing.
35	C132	Hand grit soap.		-----	
36a	C134	Fire extinguishing liquid (carbon tetrachloride base).	83	C155	Coal-tar pitch for waterproofing and damp proofing.
37	C148	Leather belting.	84	C159	Asphalt for mineral-surfaced roofing.
38b	C114	Cotton rubber-lined fire hose (couplings and gaskets).	85	C160	Asphalt for waterproofing and damp proofing.
39b	C305	Tubing, rubber.		-----	

<sup>1</sup> Bureau of Mines Technical Paper, No. 323A.

## Numerical list of specifications—Continued

Federal Specifications Board specification No.	Bureau of Standards Circular No.	Title	Federal Specifications Board specification No.	Bureau of Standards Circular No.	Title
86	C161	Asphalt-saturated rag felt for roofing and waterproofing.	133a	-----	Rope manila wrapping paper.
87	C162	Asphalt primer for roofing and waterproofing.	134	-----	Aluminum ingot.
88	C168	Asphalt for unsurfaced built-up roofing.	135	-----	Ferrovandium.
89	-----	Manganese-bronze ingots (for remelting).	136a	C269	Rubber-metal gasoline hose.
90	-----	Pig tin.	137	C165	Olive-drab paint (semipaste and ready mixed).
91a	-----	Zinc, slab (spelter).	138	-----	Ferromanganese.
92	-----	Measuring sizes of hosiery.	139	-----	Ferrochrome.
93	-----	Asbestos-copper gaskets, corrugated.	140	-----	High-test gray-iron castings (semisteel).
94b	C243	Packing, asbestos metallic cloth sheet.	141	-----	Gray-iron castings.
95	-----	Asbestos valve-stem packing.	142	-----	Manganese ore.
96b	C241	Packing, asbestos sheet, compressed.	143	-----	Ferromolybdenum.
97b	C242	Gaskets, asbestos metallic cloth.	144	-----	Ferrotitanium.
98a	C240	Diaphragm packing.	145	-----	Ferrosilicon.
99	-----	Fabric condenser-tube packing.	146	C170	Construction of built-up roofing, type 4A WS.
100	-----	Fiber packing for lubricating and fuel oil.	147	C171	Construction of built-up roofing, type 5A WS.
101b	C239	Packing, flax.	148	C172	Construction of built-up roofing, type 3ACS.
102	-----	Flexible metallic packing.	149	C173	Construction of built-up roofing, type 4ACS.
103a	C238	Asbestos high-pressure rod packing.	150	C174	Construction of built-up roofing, type 5ACS.
104a	C237	Low-pressure spiral-gland packing.	151	C175	Construction of built-up roofing, type 3TCS.
105	-----	Metallic packing (fixed-ring type).	152	C176	Construction of built-up roofing, type 4TCS.
106	-----	Plastic metallic packing.	153	C177	Construction of built-up roofing, type 5TCS.
107	-----	Semimetallic packing.	154	C178	Construction of built-up roofing, type 4TWS.
108	-----	Solid metallic packing (floating-ring type).	155	C179	Construction of built-up roofing, type 5TWS.
109	-----	Packing rings for boiler blow-off valves.	156	C180	Installation of metal flashings with bituminous built-up roofing.
110a	C236	Cloth-insertion rubber packing.	157	C181	Installation of plastic flashings with bituminous built-up roofing.
111a	C235	Rubber packings and gaskets (molded, sheet, and strip).	158	-----	Hair felt.
112a	C234	Wire-insertion rubber packing.	159	C166	Light-weight duck (Army duck, gray).
113a	C233	Tucks packing.	160	C167	Tent duck (special construction for bleaching or dyeing, gray).
114a	C244	Rubber valves.	161	-----	*Coffee, tea, and cacao products.
115	C163	Titanium pigment, dry and paste.	162a	-----	Pipe, welded steel (black and galvanized).
116	-----	Phosphor tin.	163	C182	Record and copying ink.
117	-----	Pig lead.	164	C183	Writing ink.
118	-----	Phosphor copper.	165	C184	Red ink.
119	-----	Silicon copper.	166	C185	Stamp-pad ink.
120	-----	Ingot copper.	167a	C186	Ribbons, typewriter.
121a	-----	*Tableware, glass.	168a	C187	Ribbons, hectograph.
122	-----	Glass lantern globes and lamp chimneys.	169a	C188	Ribbons, computing and recording machine.
123	C164	Flat glass for glazing purposes.	170	-----	Steel castings.
124	-----	Hand chemical fire extinguisher (1 quart carbon-tetrachloride type).	171a	-----	Ship chain.
125	-----	Ground chrome ore.	172	-----	Bronze castings.
126	-----	Foundry pig iron.	173a	-----	Aluminum bronze ingots (for remelting).
127a	-----	25 per cent rag blotting paper, white and colored.	174	-----	Welding wire, iron and steel.
128a	-----	Desk blotting paper, colored.	175	-----	Knife switches.
129a	-----	Chart paper.	176	-----	Renewable cartridge inclosed fuses.
130a	-----	Mimeograph paper.	177a	-----	Kraft wrapping paper.
131a	-----	50 per cent rag mimeograph paper.			
132a	-----	Wood manila wrapping paper.			

## Numerical list of specifications—Continued

Federal Specifications Board specification No.	Bureau of Standards Circular No.	Title	Federal Specifications Board specification No.	Bureau of Standards Circular No.	Title
178a		Sulphite manila wrapping paper.	235a	C251	Rubber fountain syringe.
179		No. 1 grade blue-print paper (sensitized and unsensitized).	236	C221	Colon tube.
180		No. 2 grade blue-print paper (sensitized and unsensitized).	237	C220	Stomach or lavage tube.
181		No. 3 grade blue-print paper (sensitized and unsensitized).	238		Pipe threads.
182a		Paper, brown process (sensitized and unsensitized).	239	C260	Heavy rust-preventive compound.
183	C212	Upholstery leather.	240		Folding canvas cot.
184	C213	Lace leather.	241	C198	Sole leather.
185		General service bed.	242		Wrought iron pipe (welded) (black and galvanized).
186		Standard hospital bed.	243a		Chinaware, vitrified.
187a		Beds, surgical.	244	C194	Milled toilet soap.
188		Folding hospital cot.	245	C195	Powdered soap (for laundry use).
189		Adjustable spring bottom (Gatch frame).	246	C193	Liquid soap (for laundry use).
190		Liberty steel cot.	247	C205	Gypsum plaster.
191		Brush, blacking and dauber.	248	C206	Calcined gypsum.
192		Brush, easting.	249	C204	Hydrated lime for structural purposes.
193		Brush, clothes scrubbing.	250	C201	Quicklime for structural purposes.
194		Brush, cuspidor.	251a	C255	Cheesecloth for wiping purposes.
195		Brush, dauber, long paddle.	252b	C258	Cheesecloth, unbleached.
196		Brush, deck scrubbing.	253a	C257	Cheesecloth, bleached or semi-bleached.
197		Brush, hand floor scrubbing.	254b	C256	Denim, brown (shrunken).
198		Brush, hair, military.	255a	C259	Brown denim (unshrunken).
199		Brush, radiator dusting.	256b	C265	Denim, indigo blue (shrunken).
200		Brush, shaving.	257a	C266	Indigo blue denim (unshrunken).
201		Brush, sidewalk.	258a	C270	Mercerized cotton airplane cloth, grade A.
202		Brush, tooth.	259	C261	Colored cotton rags for wiping machinery (sterilized).
203		Brush, window.	260	C267	Wiping cloths.
204		Broom, rattan push.	261	C264	White cotton rags for wiping machinery (sterilized).
205		Broom, rattan (upright).	262a	C262	Cotton waste, white.
206		Broom, scrubbing.	263a	C263	Cotton waste, colored.
207		Broom, wire push.	264a	C260	Wool waste, colored.
208a		Duster, counter.	265a		Ink, drawing, black waterproof.
209	C191	Battleship linoleum.	266a	C197	Indelible marking ink for fabrics.
210	C190	Plain, inlaid, and printed linoleum.	267		*Meat and meat-food products.
211		Magnesia asbestos plaster.	268a	C299	Brick, fire-clay.
212		Magnesia molded pipe covering and blocks.	269		Rods, welding, nonferrous, for gas welding.
213		Hand chemical fire extinguishers (soda-and-acid type).	270		*Fruits (fresh, canned, and dried) and fruit products.
214	C192	Asphalt prepared roofing.	271		*Vegetables (fresh, canned, and dried).
215a	C247	Surgeons' rubber aprons.	272		Naval and commercial brass castings.
216	C228	Helmet-shaped ice bag.	273		Spiegeliesen.
217	C227	Rubber ice bags.	274		Refrigerators.
218	C222	Poltizer bags.	275		Road oil for hot application (type OH-1-25).
219	C219	Rubber bandages.	276a		Asphalt for use in road and pavement construction.
220a	C249	Cloth-inserted hot-water bottle.	277		Petroleum asphalt for joint filler (squeeze or pouring method), Type PAF-1-25.
221a	C248	Rubber hot-water bottles.	278	C215	Outside white titanium-zinc paint (semipaste and ready mixed).
222	C225	Rubber catheters.	279		Tars for cold application.
223		Rubber cement for medical rubber goods.	280		Refined tar for hot application (type TH-1-25).
224	C226	Rubber finger cots.	281		Tar for use in repair work.
225	C223	Rubber tips for crutches.	282		Refined tar for construction.
226a	C254	Cloth-inserted ring cushions.	283	C216	Putty.
227a	C246	Rubber ring cushions.			
228	C218	Rubber dam.			
229	C217	Surgeons' rubber gloves.			
230a	C245	Surgical operating pads.			
231	C224	Rubber pillow cases.			
232a	C252	Rubber air pillows.			
233a	C253	Rubber sheeting.			
234a	C250	Cloth-inserted fountain syringe.			

## Numerical list of specifications—Continued

Federal Specifications Board specification No.	Bureau of Standards Circular No.	Title	Federal Specifications Board specification No.	Bureau of Standards Circular No.	Title
284	C211	Gypsum wall board.	330	-----	100 per cent rag heavy ledger paper, white.
285	C210	Gypsum plaster board.	331a	-----	Paper, manifold, 50 per cent rag, white and colored, glazed.
286	-----	Brass castings to be brazed.	332	-----	Whisk brooms.
287	-----	Tubing, copper, seamless, and pipe, copper, seamless, standard iron pipe size.	333	-----	Corn brooms.
288	-----	Cotton, absorbent.	334a	C298	Clay, fire.
289	-----	Gauze, plain.	335a	C297	Refractories, fire-clay, plastic.
290	-----	Bronze ingots (for remelting).	336	C275	Builders' hardware. (Price, 15 cents.)
291	C229	Friction tape.	337	-----	Compressed cork (cork board).
292	C230	Rubber insulating tape.	338	-----	Ground cork for insulating purposes.
293	C214	Medium and light rust preventive compounds.	339	-----	General specification for metals.
294	C287	Asphalt-saturated woven cotton fabric for waterproofing.	340	-----	Polishing paste.
295	C286	Asphalt-saturated rag felt for flashings.	341	-----	Liquid metal polish.
296	C285	Slate-surfaced, asphalt prepared roofing and shingles.	342a	-----	Pipe, brass, seamless, iron pipe size, standard and extra strong.
297	C208	Wire rope. (Price, 15 cents.)	343	-----	Cast iron soil pipe and fittings, coated and uncoated.
298	-----	Bandage, gauze, compressed.	344	-----	Cheesecloth remnants for wiping purposes.
299	-----	Bandage, plain gauze roller, assorted.	345	C293	General specifications for textile materials (methods of physical and chemical tests).
300	-----	Bandage, plaster of Paris.	346	-----	Nonrenewable plug fuzes.
301	C272	Brown cotton sheeting.	347	-----	Lapwelded and seamless steel boiler tubes.
302	C278	Brown wide cotton sheetings.	348	-----	Standard miscellaneous chain and attachments.
303	C273	Bleached wide cotton sheetings.	349	-----	Lapwelded charcoal iron boiler tubes.
304	C274	Bleached cotton sheets (medium and high count sheeting).	350	-----	Concrete reinforcement bars.
305	C277	Bleached cotton pillow cases.	351	-----	Structural steel for bridges.
306	-----	Spelter solder (for brazing).	352	-----	Structural steel for buildings.
307	-----	Silver solder.	353	-----	Insect powder (pyrethrum powder).
308	-----	Sheet lead.	354	-----	Sodium fluoride (insecticide).
309	-----	Thermometers, clinical.	355	-----	Sodium cyanide (for use as an insecticide in fumigation).
310	-----	Petroleum ether.	356	-----	Dental amalgam alloy.
311	-----	Rigid conduit, enamel.	357	-----	Boilable catgut ligatures (surgical catgut suture material).
312	C271	Rubber gloves for electrical workers (for use in connection with apparatus or circuits not exceeding 3,000 volts to ground).	358a	-----	Desks, wood.
313	-----	Tin-lead solder.	359a	-----	Furniture, office sectional, cabinets and trays, wood.
314	-----	Railroad track scales.	360	-----	Rulers, desk.
315	-----	*Sugar and sugar products.	361	-----	Shears and scissors.
316	-----	Steel blooms, billets, slabs, and bars, for reforging, carbon and alloy.	362	-----	Liquid measuring devices, retail type.
317	-----	*Cereals and cereal products.	363	-----	Burglar-resisting safes.
318	-----	Eosin Y (C. I. No. 768).	364	-----	*Condiments.
319	-----	100 per cent rag bond paper, white.	365a	-----	*Sea food (fresh, salt, smoked, and canned).
320	-----	50 per cent rag bond paper, white and colored.	366	-----	Calendar stands and pads.
321	-----	100 per cent rag ledger paper, white.	367a	-----	Shades, window, shade cloth rollers, slats, cords, and accessories.
322	-----	75 per cent rag ledger paper, white and colored.	368	-----	Sponge and pin cups.
323	-----	100 per cent rag manifold paper, white and colored.	369a	-----	Aluminum bronze castings.
324	-----	Lithograph-finish map paper.	370	-----	Manganese bronze castings.
325	-----	50 per cent rag lithograph-finish map paper.	371	-----	Nickel, for remelting.
326	-----	75 per cent rag lithograph-finish map paper.	372	-----	Structural nickel steel.
327	-----	Blotting paper, white and colored.	373	-----	Structural steel for cars.
328	-----	Sulphite bond paper, white and colored.	374	-----	Condenser tubes and tubes for ferrule stock (Admiralty metal).
329	-----	Sulphite writing paper, white and colored.	375	C302	Shellac, flake orange.
			376	C303	Varnish, shellac.
			377	-----	Paper fasteners, brass.

## Numerical list of specifications—Continued

Federal Specifications Board specification No.	Bureau of Standards Circular No.	Title	Federal Specifications Board specification No.	Bureau of Standards Circular No.	Title
378	-----	Castings, iron, malleable.	430	C315	Soda, caustic (lye) (for cleaning purposes).
379	C301	Ink, drawing, colored waterproof.	431	C316	Soda, laundry (washing soda).
380	-----	Cement, asphalt plastic.	432	C317	Sodium carbonate, granular (monohydrate crystals).
381a	-----	*Dairy products.	433	-----	Hatchets.
382	C306	Matting, rubber.	434	-----	Bars, chisel, crow and pinch.
383	C308	Stoppers, rubber.	435	-----	Cutters, glass.
384	C283	Stitches, seams, and stitching. (Price, 20 cents.)	436	-----	Dividers.
385	-----	Paper, flint.	437	-----	Cutters, pipe.
386	-----	Paper, garnet.	438	-----	Chisels, gouges, and slicks, wood-workers'.
387	-----	Cloth, abrasive, aluminum oxide.	439	-----	Coppers, soldering.
388	-----	Cloth, emery.	440	-----	Sets, hand saw.
389	-----	*Miscellaneous provisions.	441	-----	Scribers, machinists'.
390	-----	Polish, silver.	442	-----	Knives, shoe.
391	-----	Iron bar, wrought, refined.	443	C321	Cement, masonry.
392	-----	Brass, rods, bars, shapes, plates, sheets, and strips, commercial.	444	C322	Integral waterproofing material, water-repellent type (for use with Portland cement, mortar, or concrete).
393	-----	Unions, malleable iron or steel.	445	C323	Cement, plastic magnesia (magnesia-oxychloride), used as flooring, bases, wainscots, etc.
394	-----	General specification for paper.	446	-----	Ammonium chloride (sal ammoniac).
395	-----	Preservatives, wood, and processes of treatment.	447	C326	Rope, cotton.
396	-----	Brush, calcimine.	448	C310	Plumbing fixtures (for land use). (Price, 15 cents.)
397	-----	Brush, dust, ceiling and wall.	449	-----	Adzes.
398	-----	Brush, fiber garage.	450	-----	Shaves, spoke.
399	-----	Brush, flat fitch.	451	-----	Shears, tinners', hand (snips).
400	-----	Sweep, floor, hair.	452	-----	Materials for top-soil or sand-clay road surfaces.
401	-----	Brush, glue, round.	453	-----	Gravel for gravel roads.
402	-----	Brush, glue, flat.	454	-----	Coarse aggregate for Portland cement concrete pavement or base (stone, slag, and gravel).
403	-----	Brush, lacquering, flat, camel hair.	455	-----	Broken stone, broken slag, or gravel for bituminous surface treatment.
404	-----	Brush, marking.	456	-----	Broken stone and broken slag for waterbound base or wearing course.
405	-----	Brush, mottling, camel hair.	457	-----	Broken stone and broken slag for bituminous macadam base or surface course.
406	-----	Brush, sash tool, oval.	458	-----	Broken stone and broken slag for bituminous concrete base or surface course.
407	-----	Brush, hand scrub, white tampico.	459	-----	Broken stone and broken slag for binder course, sheet asphalt pavement.
408	-----	Furniture and cabinets, office steel sectional.	460	-----	Sands for use in sheet asphalt or bituminous concrete pavements.
409	-----	Chairs, office.	461	-----	Sand for cement grout filler, brick and stone block pavements.
410	-----	Tubes, radio receiving electron.	462	-----	Sand for cement mortar bed for brick, stone block, or wood block pavements.
411	-----	Tableware, silver plated.	463	-----	Mineral filler for sheet asphalt or asphaltic concrete pavements (Portland cement, limestone dust, and dolomite dust).
412	-----	Paste, office and library.	464	-----	Fine aggregate for Portland cement concrete pavement or base (sand, etc.).
413	-----	Padlocks.			
414	C312	Matting, rubber, for use around electrical apparatus or circuits not exceeding 3,000 volts to ground.			
415	-----	Blades, hack saw.			
416	-----	Braces, ratchet.			
417	-----	Drills, breast.			
418	-----	Pullers, nail.			
419	-----	Rules.			
420	-----	Wax, sealing.			
421	-----	Metol (mono-methyl-para-amino phenol sulphate).			
422	C313	Towels, huck (with woven name).			
423	-----	Roofing, prepared, asphalt and asbestos, slate-surfaced.			
424	-----	Roof coating, asphalt fibrous.			
425	-----	Paper, carbon, black, light weight (for typewriter use).			
426	-----	Paper, carbon, black, standard weight (for typewriter use).			
427	-----	Tubing, brass, seamless.			
428	C318	Matches, safety (full size, in boxes).			
429	C314	Soda ash.			

## Numerical list of specifications—Continued

Federal Specifications Board specification No.	Bureau of Standards Circular No.	Title	Federal Specifications Board specification No.	Bureau of Standards Circular No.	Title
465	-----	Materials for cushion course, brick, stone block, or wood block pavement (sand, slag, limestone screenings, etc.).	480	-----	Saws.
			481	-----	Jacks.
			482	-----	Leather, bag.
			483	-----	Leather, rigging.
466	-----		Belting, conveyor (stitched duck).	484a	-----
467	-----	Copper rods, bars, shapes, plates, sheets, and strips.	485	C 336	Gaskets, metallic encased.
468	-----	Silver, nickel, rods, bars, shapes, plates, sheets, and strips (German silver).	486	C 335	Packing, hard fiber sheet.
			487	C 334	Packings, asbestos wick and rope.
			488	-----	Knives, drawing.
469	-----	Steel, structural, for ships other than naval vessels.	489	-----	Pipe fittings, cast-iron (threaded).
470	-----	Calcium carbide.	490	-----	Tubes, seamless steel, for aircraft purposes.
471	-----	Cupboard and locker equipment, steel.	491	-----	Fans, electric, desk and bracket type.
472	-----	Thermometers, industrial.	492	-----	Boots, rubber, hip.
473	-----	Scales, weighing, general specification for.	493	-----	Boots, rubber, short, light.
474	-----	Ladles, plumbers.	494	-----	Boots, rubber, short, heavy.
			495	-----	Pipe, concrete, plain.
475a	-----	Oil, linseed, boiled.	496	-----	Leather, hydraulic packing (vegetable tanned).
476	-----	Chrome yellow (lemon, medium and orange; dry paste in oil and paste in japan).	497	-----	Bunting, wool.
			498	-----	Oilcloth, table, white.
477	-----	Desks, steel.	499	-----	Burlap, jute.
478	-----	Tables and stands, wood.	500	-----	Tablecloths, cotton.
479	-----	Frames, saw, hack.			





# A DIRECTORY OF LABORATORIES

## COMMERCIAL TESTING AND COLLEGE RESEARCH

**I**N recognition of the desirability under present conditions of independent commercial testing service and in anticipation of a marked increase in the demand for such service in both domestic and export trade, there has been compiled by the National Bureau of Standards a list of laboratories throughout the country that are prepared to test various kinds of commodities to determine whether or not they comply with purchase specifications. This list is being issued as Bureau of Standards Miscellaneous Publication No. 90.

### 207 COMMERCIAL TESTING LABORATORIES

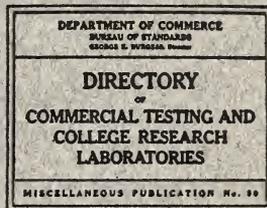
In accordance with the law the National Bureau of Standards makes tests and carries out investigations for other Government departments. Because of the large amount of this official work, it is impracticable for the bureau to make tests for private individuals if other laboratories can do the work. To inform interested persons of the location of other laboratories, the bureau has compiled a list of the 207 commercial testing laboratories throughout the country, together with indications of the types of commodities which they are prepared to test. Special care has been exercised to make this list complete.

### 143 COLLEGE RESEARCH LABORATORIES

To accompany the list of commercial testing laboratories there has been compiled a list of 143 colleges which are used not only for the purposes of instruction, but also to a considerable extent for research work. In fact, many important industrial research problems are being solved in the college laboratories.

The existence of a thoroughly classified list of testing laboratories will have a number of beneficial effects in promoting the use of specifications, not the least important of which will be the inducement offered to the large number of purchasers who have hitherto hesitated to buy on specifications, because of their inability to determine whether or not commodities delivered correspond to the specification requirements.

For the purpose of minimizing the disadvantages incident to the use of specifications, the bureau has inaugurated a so-called "certification plan" in accordance with which there are compiled lists of manufacturers who have expressed



their desire to supply material complying with certain selected nationally recognized specifications and willing to certify to the purchaser, upon request, that the material thus supplied is guaranteed to meet the requirements and tests of the specifications. This plan has already been applied to 48 United States Government master specifications. Copies of any of the 48 lists of manufacturers, to which additions are being made from time to time, can be obtained upon request.

### DIRECTIONS FOR OBTAINING THE DIRECTORY OF LABORATORIES

*Copies of the Directory of Commercial Testing and College Research Laboratories may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C., by sending WITH the order a remittance either in the form of post office money order, coupons (issued for the specific purpose of purchasing Government publications), express money order, New York draft, or cash—at the sender's own risk. It is important to follow these directions explicitly to avoid delay and confusion. An order blank is given below for your convenience. Add one-third if to be shipped to a foreign country (other than Mexico and Canada).*

#### SUPERINTENDENT OF DOCUMENTS,

Government Printing Office, Washington, D. C.

There is inclosed 15 cents, for which please send me the "Directory of Commercial Testing and College Research Laboratories" (Bureau of Standards Miscellaneous Publication No. 90).

Name: \_\_\_\_\_ Address: \_\_\_\_\_

## A DIRECTORY OF SPECIFICATIONS

Considerable economy can be realized in the purchase of commodities by the use of specifications. Real competitive bidding can be invited, and the delivery of satisfactory material can be insisted upon. To an ever-increasing extent State and city governments, public utilities, and the better organized industries of the country are adopting the use of specifications, which has been a feature of Federal Government purchasing for many years.

Information regarding the best known specifications for more than 6,000 commodities is given in convenient form in the National Directory of Commodity Specifications, which has been issued by the Bureau of Standards with the cooperation of the Bureau of Foreign and Domestic Commerce of the Department of Commerce. The book tells not only what specifications are in general use, but also by whom they were prepared and where copies can be obtained. In it are conveniently indexed for ready finding about 27,000 specifications prepared by the Federal Specifications Board and the separate departments of the Federal Government, by State and city purchasing agents, public utilities, technical societies, and trade associations. At the request of Secretary Hoover an advisory board was selected by these interests to represent them in supervising the preparation of the Directory.

The contents include: A statement and indorsement by the advisory board, a foreword by Secretary Hoover, a thoroughly classified list of specifications for all types of commodities. There are also included an alphabetical list of commodities, which serves as an index to the specifications, and directions for obtaining copies of specifications listed in the Directory.

### *Summary of commodities and specifications therefor*

Decimal class	Commodity groups	Commodities indexed	Approximate number of specifications
000	Animal and animal products.....	350	1,600
100	Vegetable food products, oil, seeds, expressed oil, and beverages.....	525	2,100
200	Other vegetable products (except fibers and wood).....	400	800
300	Textiles.....	275	1,900
400	Wood and paper.....	625	3,300
500	Nonmetallic minerals.....	725	3,300
600	Ores, metals, and manufactures (except machinery and vehicles).....	1,700	6,400
700	Machinery and vehicles.....	800	2,900
800	Chemicals and allied products.....	600	2,400
900	Miscellaneous.....	650	2,400
Total.....		6,650	27,100

Whether you are a producer or a consumer, a seller or a buyer of commodities; whether you are interested in the preparation or in the use of specifications, the Directory contains for you information which you can not afford to do without. It is printed in small, but legible type, and thus the number of pages has been kept at the minimum, 385, without sacrificing the usefulness of the Directory. It is bound in cloth. The cost of printing and binding the book at the Government Printing Office is \$1.25.

### DIRECTIONS FOR OBTAINING THE DIRECTORY OF SPECIFICATIONS

Copies of the National Directory of Commodity Specifications may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C., by sending with the order a remittance either in the form of post-office money order, coupons (issued for the specific purpose of purchasing Government publications), express money order, New York draft, or cash—at the sender's own risk. It is important to follow these directions explicitly to avoid delay and confusion. If the Directory is to be shipped to a foreign country (other than Mexico and Canada), add one-third to the price, making the total \$1.67.