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BY THE FEDERAL SPECIFICATIONS BOARD**

**(COMPLETE TO NOVEMBER 1, 1929)**

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ALPHABETICAL INDEX  
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FEDERAL SPECIFICATIONS

PROMULGATED BY THE

FEDERAL SPECIFICATIONS BOARD

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(Complete to November 1, 1929)



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Drains (plumbing fixtures for land use) (price, 15 cents).....	448	C310	Flaxseed meal (feeds and forage).....	25c	-----
Drawing instruments (first grade, in sets).....	593	-----	Flint paper.....	385b	-----
Drawing paper, detail.....	594	-----	*Flour, buckwheat.....	317	-----
Drawing paper.....	595	-----	*Flour, graham (whole wheat meal).....	645a	-----
Drawing paper, printed.....	596	-----	*Flour, wheat.....	641a	-----
Drawing paper, ruled.....	597	-----	Fluoride, sodium (insecticide).....	354	-----
Dredging sleeves.....	42	-----			
Drier, paint, liquid.....	20a	-----			
Drill (unbleached).....	557	C367			
Drills, breast.....	417	-----			
Drills, hand, with hollow handle.....	509	-----			
Dry cells and batteries.....	58a	C139			
Drying tumblers (laundry appli- ances).....	551	-----			
Duck, cotton, numbered.....	53	C136			
Duck, light weight (Army duck, gray).....	159	C166			
Duck, tent (special construction for bleaching or dyeing, gray).....	160	C167			
Duster, counter.....	208a	-----			

† Printed, see p. (ii) as to procurement.

## Alphabetical index of specifications—Continued

Title	Federal specifi- cation No.	Bureau of Stand- ards Circu- lar No.	Title	Federal specifi- cation No.	Bureau of Stand- ards Circu- lar No.
*Foods. (See Provisions.)			*Grapes (fruits and fruit products)	270	-----
Forage, feeds and.....	25c	-----	Gravel, broken stone, broken slag or, for bituminous surface treat- ment.....	455	-----
Forks, dessert and dinner (table- ware, silver-plated).....	411	-----	Gravel for gravel roads.....	453	-----
*Fowl fricassee, fresh (meat and meat food products).....	267	-----	Grease (lubricants and liquid fuels) (price, 15 cents).....	2d	(1)
Frame, Gatch, adjustable spring bottom.....	189	-----	Gypsum, calcined.....	248	C206
Frames, saw, back.....	479	-----	Gypsum plaster.....	247	C205
*Fruits, dried (evaporated).....	634a	-----	Gypsum plaster board.....	285	C210
*Fruits (fresh).....	270	-----	Gypsum wall board.....	284	C211
Fuel V, motor.....	623	-----	Hacksaw blades.....	415a	-----
Fuels, liquid, lubricants, and methods for sampling and test- ing (price, 15 cents).....	2d	(1)	Hair felt.....	158	-----
Furniture and cabinets, office, sectional, steel.....	408	-----	*Hams, sweet pickled, smoked.....	565a	-----
Furniture, office, sectional cabi- nets and trays, wood.....	359a	-----	Hardware, builders' (price, 15 cents).....	336	C275
Fuses, nonrefillable, cartridge in- closed.....	56	-----	Hatchets.....	433	-----
Fuses, plug, nonrenewable.....	346	-----	Hay (feeds and forage).....	25c	-----
Fuses, renewable, cartridge in- closed.....	176	-----	*Head cheese.....	564a	-----
Garnet paper.....	386a	-----	*Hearts, beef.....	566a	-----
Garnet paper, waterproof.....	583	-----	Heaters, water (plumbing fixtures for land use) (price, 15 cents).....	448	C310
Gaskets and couplings, fire hose, cotton, rubber lined.....	38b	C114	Helmets, welders'.....	544	-----
Gaskets, asbestos-copper, corru- gated.....	93	-----	Helmets, sandblasting.....	546	-----
Gaskets, asbestos metallic cloth.....	97b	C242	Hinges (builders' hardware) (price, 15 cents).....	336	C275
Gaskets, metallic encased.....	485	C336	Hominy feed, white and yellow (feeds and forage).....	25c	-----
†Gaskets, rubber packing and (molded, sheet, and strip).....	111b	-----	*Hominy grits.....	645a	-----
Gasoline. (See also Fuel V, motor.).....			*Hominy, lye, canned.....	645a	-----
Gasoline (lubricants and liquid fuels) (price, 15 cents).....	2d	(1)	*Hops (miscellaneous provisions).....	389	-----
Gasoline, motor, United States Government.....	622a	-----	Hose, air brake and signal, and gaskets.....	43	-----
Gauze, bandage, compressed.....	298	-----	Hose, chemical.....	47	-----
Gauze, plain.....	289	-----	Hose, divers'.....	44b	C289
Gauze, roller bandage, plain, as- sorted.....	299	-----	Hose, fire, cotton, rubber lined (couplings and gaskets).....	38b	C114
General specification for—			Hose, fire, unlined linen.....	527	C358
Metals.....	339a	-----	Hose, gas.....	40b	C290
Paper.....	394	-----	Hose, gasoline, rubber metal.....	136a	C269
Rubber goods (price, 10 cents).....	59a	C232	†Hose, oil suction and discharge.....	63c	-----
†Textile materials.....	345a	-----	Hose, pneumatic.....	41b	C307
Weighing scales.....	473	-----	Hose, spray.....	45	-----
German silver, nickel silver, rods, bars, shapes, plates, sheets, and strips.....	468	-----	Hose, steam.....	49b	C268
*Ginger (condiments).....	364	-----	Hose, tender (corrugated).....	46c	C288
Glass cutters.....	435	-----	†Hose, water, braided.....	588	-----
Glass, flat, for glazing purposes.....	123	C164	†Hose, water suction (smooth bore).....	50b	-----
Glass lantern globes and lamp chimneys.....	122	-----	†Hose, water and wash deck.....	48c	-----
*Glass tableware.....	121a	-----	Hosiery, sizes, measuring.....	92	-----
Globes, glass, lantern, and lamp chimneys.....	122	-----	Hydrants, wall (plumbing fix- tures for land use) (price, 15 cents).....	448	C310
Gloves, rubber, for electrical workers (for use in connection with apparatus or circuits not exceeding 3,000 volts to ground).....	312	C271	Ice bag, helmet shaped.....	216a	-----
Gloves, rubber, surgeons'.....	229	C217	Ice bags, rubber.....	217	C227
Goggles for protection against fly- ing particles and chips.....	541	-----	Illustrating board.....	590	-----
Goggles, rubber frame.....	542	-----	Ingot, aluminum.....	134	-----
Goggles, welders.....	543	-----	Ingot copper.....	120	-----
Gauges, slicks, and chisels, wood- workers'.....	438	-----	Ingots, aluminum bronze (for re- melting).....	173a	-----
Granite, block for, recut granite, and durax granite pavements.....	510	-----	Ingots, antifriction metal, and castings.....	536	-----
*Grapefruit (fruits and fruit prod- ucts).....	270	-----	Ingots, bronze (for remelting).....	290a	-----
			Ingots, manganese bronze (for remelting).....	89	-----
			Ink, black waterproof drawing.....	265a	C196
			Ink, marking, indelible, for fabrics.....	266a	C197
			Ink, record and copying.....	163	C182
			Ink, red.....	165	C184
			Ink, stamp-pad.....	166	C185
			Ink, writing.....	164	C183
			Insect powder (pyrethrum pow- der).....	353	-----
			(Insecticide in fumigation) so- dium cyanide.....	355	-----
			(Insecticide) sodium fluoride.....	354	-----

† Printed, see p. (u) as to procurement.

1 Bureau of Mines Technical Paper No. 323B.

## Alphabetical index of specifications—Continued

Title	Federal specifi- cation No.	Bureau of Stand- ards Circular No.	Title	Federal specifi- cation No.	Bureau of Stand- ards Circular No.
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Iron bar, wrought, refined.....	391	-----	Lime, quick, for structural pur- poses.....	250	C201
Iron boiler tubes, lapwelded, charcoal.....	349	-----	*Limes (fruits and fruit products).....	270	-----
Iron, cast, pipe and fittings, soil, coated and uncoated.....	343a	-----	Linen fire hose, unlined.....	527	C358
Iron, cast, pipe fittings (threaded).....	489	-----	Linoleum, battleship.....	209	C191
Iron castings, gray.....	141	-----	Linoleum, plain, inlaid, and printed.....	210	C190
Iron castings, high test gray (semi- steel).....	140	-----	Linseed cake and meal (feeds and forage).....	25c	-----
Iron castings, malleable.....	378a	-----	Liquid, fire extinguishing (car- bon tetrachloride base).....	36a	C134
Iron, pig, foundry.....	126a	-----	*Liver, beef.....	568a	-----
Iron pipe, centrifugally cast, water.....	537	-----	Locker equipment, cupboard, and steel.....	471	-----
Iron, pipe, wrought, uncoated and zinc coated (galvanized).....	242a	-----	Locks (builders' hardware) (price, 15 cents).....	336	C275
Iron pipe fittings, malleable (threaded) (150 lb.).....	535	-----	Lubricants and liquid fuels, and methods for sampling and test- ing (price, 15 cents).....	2d	(1)
Iron and steel welding wire.....	174	-----	Lumber (grading and inspection rules).....	24	-----
Iron unions, or steel, malleable.....	393	-----	Lumber, softwood, yard and fac- tory.....	533a	-----
Iron unions, 300-pound, malle- able, or steel.....	580	-----	*Luncheon meat.....	569a	-----
Ironers (laundry appliances).....	551	-----	Lye, soda, caustic (for cleaning purposes).....	430	C315
Ironing boards (laundry appli- ances).....	551	-----	*Macaroni, spaghetti, and vermi- celli.....	648a	-----
Ironware, enameled (plumbing fixtures for land use) (price, 15 cents).....	448	C310	*Mace (condiments).....	364	-----
Jacks.....	481	-----	Machines, washing (laundry ap- pliances).....	551	-----
*Jams.....	635a	-----	*Mackerel, salted (sea food).....	365a	-----
Jeans, bleached.....	614	-----	Magnesia asbestos plaster.....	211	-----
*Kale (vegetables).....	271	-----	Magnesia cement, plastic (mag- nesia-oxychloride) used as floor- ing, bases, wainscots, etc.....	445	C323
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*Kidneys, beef.....	567a	-----	Manganese bronze castings.....	370	-----
Knives, drawing.....	488	-----	Manganese bronze ingots (for remelting).....	89	-----
Knives, shoe.....	442	-----	Manganese bronze rods, bars, shapes, and plates.....	552	-----
Knives, tea, dessert, and dinner (tableware, silver-plated).....	411	-----	Manganese, ferro.....	138	-----
Ladles, plumbers.....	474	-----	Manganese ore.....	142	-----
†Lamps, electric, incandescent, large, tungsten filament.....	23c	-----	Manholes (plumbing fixtures for land use) (price, 15 cents).....	448	C310
†Lamps, electric, incandescent, miniature, tungsten filament.....	618	-----	Masks, babbiting.....	545	-----
*Lard substitutes.....	603a	-----	Matches, safety (full size in boxes).....	428	C318
Latches (builders' hardware) (price, 15 cents).....	336	C275	Matting, rubber.....	382	C306
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Laundry appliances.....	551	-----	Mattress and pillow ticking.....	615a	-----
Laundry trays (porcelain, slate, and soapstone) (plumbing fix- tures) (price, 15 cents).....	448	C310	Meal, alfalfa, corn (feeds and for- age).....	25c	-----
Lavatories (plumbing fixtures for land use) (price, 15 cents).....	448	C310	Measuring devices, liquid, retail type.....	362	-----
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Lead, red, dry and paste.....	11	C90	*Meat, luncheon.....	569a	-----
Lead, sheet.....	308	-----	Metal, antifriction, ingots and castings.....	536	-----
Lead-tin solder.....	313	-----	†Metal bases for plaster and stucco construction.....	553	-----
Lead, white, basic carbonate, dry and paste.....	5	C84	Metals, general specification for.....	339a	-----
Lead, white, basic sulphate, dry and paste.....	6	C85	Metol (monomethyl-para amino- phenol sulphate).....	421	-----
Leather, bag.....	482	C338	Middlings, standard and flour (feeds and forage).....	25c	-----
Leather belting.....	37	C148	*Milk, fresh, evaporated, dried, and malted, condensed (dairy products).....	381a	-----
Leather, hydraulic packing (vege- table tanned).....	496	C340	Millboard, asbestos.....	54	-----
Leather, lace.....	184	C213			
†Leather, rigging.....	483a	-----			
Leather, sole.....	241	C198			
Leather upholstery.....	183	C212			
*Lemons (fruits and fruit prod- ucts).....	270	-----			
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† Printed, see p. (ii) as to procurement.

1 Bureau of Mines Technical Paper No. 323B.

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Title	Federal specification No.	Bureau of Standards Circular No.	Title	Federal specification No.	Bureau of Standards Circular No.
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Molybdenum, ferro	143	-----	Packing, semimetallic	107a	-----
Mosquito netting (unbleached bobbinet)	540a	-----	Packing, metallic, solid (floating ring type)	108	-----
Mucilage	554a	-----	Packing, rubber, cloth insertion	110a	C236
*Mustard, ground (condiments)	364	-----	Packing, rubber, wire insertion	112a	C234
*Mutton	570a	-----	Packing, tucks	113a	C233
Nail pullers	418	-----	†Packings, rubber, and gaskets (molded, sheet, and strip)	111b	-----
Nails, spikes, tacks, and staples	534	-----	Padlocks	413a	-----
Netting, mosquito (unbleached bobbinet)	540a	-----	Pads and stands, calendar	366a	-----
Nickel, copper, alloy castings	578	-----	Pads, surgical operating	230b	-----
Nickel, copper, alloy, rods, bars, shapes, plates, sheets, and strips	585	-----	Paint, black, semipaste and ready mixed	14b	C94
Nickel, for remelting	371	-----	Paint drier, liquid	20a	-----
Nickel silver, rods, bars, shapes, plates, sheets, and strips (German silver)	468	-----	Paint, green, semipaste and ready mixed	15	C97
Nickel steel, structural	372	-----	Paint, lithopone, interior, white and light tints, flat or eggshell finish (semipaste and ready mixed)	21b	C111
*Nutmeg (condiments)	364	-----	Paint, lithopone, gloss interior, white and light tints	67	C147
*Nuts (miscellaneous provisions)	389	-----	Paint, olive drab (semipaste and ready mixed)	137a	C165
Nuts, bolts, and machine screws	548	-----	Paint, outside white titanium-zinc (semipaste and ready mixed)	278	C215
*Oatmeal and rolled oats	317a	-----	Paint, white, and tinted paints made on a white base, semipaste and ready mixed	10b	C89
Oats (feeds and forage)	25c	-----	Paints, composite vehicle for thinning semipaste, when the use of straight linseed oil is not justified	17	C102
Ocher, dry and paste	12	C91	Paints, iron oxide and iron hydroxide	13b	C93
Oil, cottonseed (edible grade)	73	-----	Paints, thinning, volatile mineral spirits for	16	C98
Oil, linseed, boiled	475b	C362	Paper. ( <i>See also</i> Paper Specifications of Joint Committee on Printing issued by Government Printing Office.)	582	-----
Oil, linseed, raw	4b	C361	Paper, abrasive, artificial, waterproof	179	-----
Oil, olive (edible grade)	77	-----	Paper, blue print, No. 1 grade (sensitized and unsensitized)	180	-----
Oil, road, for hot application (type OH-1-25)	275	-----	Paper, blue print, No. 2 grade (sensitized and unsensitized)	181	-----
Oilcloth, table, white	498	C357	Paper, blue print, No. 3 grade (sensitized and unsensitized)	182a	-----
Oils, burning, fuel, lubricating, and mineral (lubricants and liquid fuels) (price, 15 cents)	2d	(1)	Paper, brown process (sensitized and unsensitized)	425	-----
*Oleomargarine (dairy products)	381a	-----	Paper, carbon, black, light weight (for typewriter use)	426	-----
*Onions, green, staple (vegetables)	271	-----	Paper, carbon, black, standard weight (for typewriter use)	594	-----
*Oranges (fruits and fruit products)	270	-----	Paper, detail drawing	595	-----
Ore, chrome, ground	125	-----	Paper, drawing	596	-----
Ore, manganese	142	-----	Paper, drawing, printed	597	-----
Oxide, leaded zinc, dry and paste	9	C88	Paper, fasteners, brass	377	-----
Oxide, zinc, dry and paste	8	C87	Paper, flint	385b	-----
Oxychloride, magnesia, plastic magnesia cement, used as flooring, bases, wainscots, etc.	445	C323	Paper, garnet	386a	-----
*Oysters, fresh (sea food)	365a	-----	Paper, garnet, waterproof	583	-----
Packing, asbestos high pressure rod	103a	C238	Paper, general specification for	394	-----
Packing, asbestos metallic cloth sheet	94b	C243	Paper, tracing	598	-----
Packing, asbestos sheet, compressed	96c	-----	*Parsley (vegetables)	271	-----
Packing, asbestos valve stem	95	-----	*Parsnips (vegetables)	271	-----
Packing, asbestos wick and rope	487	C334	Paste, office and library	412	-----
Packing, diaphragm	98a	C240	Paste, polishing	340	-----
Packing, fabric condenser tube	99	-----	Pavement construction, asphalt for use in road and	276a	-----
Packing, fiber, for lubricating and fuel oil	100	-----			
Packing, flax	101c	C363			
Packing, hard fiber sheet	486	C335			
Packing, hydraulic, leather (vegetable tanned)	496	C340			
Packing, low-pressure spiral gland	104a	C237			
Packing, metallic (fixed ring type)	105	-----			

† Printed, see p. (ii) as to procurement.

1 Bureau of Mines Technical Paper No. 323B.

*Alphabetical index of specifications—Continued*

Title	Federal specifi- cation No.	Bureau of Stand- ards Circu- lar No.	Title	Federal specifi- cation No.	Bureau of Stand- ards Circu- lar No.
Pavements, block for granite, re- cut granite, and durax granite	510		Plumbing fixtures (for land use) (price, 15 cents)	448	C310
Peaches, canned	607a		*Plums (fruits and fruit products)	270	
*Peaches, fresh, and evaporated (fruits and fruit products)	270		Polish, liquid metal	341	
*Pears, canned	608a		Polish, silver	390	
*Pears, fresh, evaporated (fruits and fruit products)	270		Polishing paste	340	
*Peas, canned	628a		Porcelain ware (plumbing fix- tures for land use) (price, 15 cents)	448	C310
*Peas, green, in pods (vegetables)	271		*Pork	571a	
*Pepper (condiments)	364		*Potatoes, Irish, sweet (vegeta- bles)	271	
*Peppers, green, sweet (vege- tables)	271		Pots, coffee, tea, chocolate (table- ware, silver-plated)	411	
Percale	556		Powder, insect (pyrethrum pow- der)	353	
Petroleum asphalt for joint filler (squeegee or pouring method)	277		Powder, scouring, for floors	34a	C370
Petroleum ether	310		Powder, soap	28	C125
Phosphate, trisodium, technical (phosphate cleaner)	558	C369	*Powders, baking, tartaric acid (miscellaneous provisions)	389	
Phosphor bronze spring wire	532		Preservatives, wood, and pro- cesses of treatment	295	
Phosphor copper	118		Preserves	270	
Phosphor tin	116		*Provisions, miscellaneous	389	
Photography, Sodium sulphite, anhydrous, for	556		Prunes, canned	610a	
*Pickles (condiments)	364		*Prunes, evaporated, dried	634a	
Pillowcases, cotton, bleached	305	C277	Pulleys, nail	418	
Pillowcases, rubber	231a		Pulleys (builders' hardware) (price, 15 cents)	336	C275
Pillows, air, rubber	232b		*Pumpkin, canned	629a	
Pillow ticking and mattress	615a		Pumpkin, fresh	271	
Pinch bars, crow and chisel	434		Putty	283	C216
*Pineapple, canned	609a		Pyrethrum powder (insect pow- der)	353	
*Pineapples, fresh (fruits and fruit products)	270		Quicklime for structural purposes	250	C201
Pipe, brass, seamless, iron pipe size, standard and extra strong	342a		Radio receiving electron tubes	410	
Pipe, soil, cast-iron, and fittings, coated and uncoated	343a		*Radishes, fresh (vegetables)	271	
Pipe, concrete, plain	495		Rag felt for asphalt saturated roof- ing and waterproofing	86	C161
Pipe, copper, seamless, and tub- ing, copper, seamless, standard iron pipe size	287		Rag felt for flashings, asphalt saturated	295	C286
Pipe covering and blocks, mag- nesia molded	212		Rags, colored, cotton, for wiping machinery (sterilized)	250a	C261
Pipe cutters	437		Rags, white cotton, for wiping machinery (sterilized)	261a	C264
Pipe fittings, cast-iron (threaded)	459		*Raisins, dried	634a	
Pipe fittings, malleable iron (threaded) (150 lb.)	535		Receptacles, waste paper, fiber	538	
Pipe threads	238		Red lead, dry and paste	11	C90
Pipe, water, centrifugally cast iron	537		Refractories, plastic fire clay	335a	C297
Pipe, welded steel (black and gal- vanized)	162a		Reinforcement bars, concrete	350a	
Pipe, wrought-iron, uncoated and zinc coated	242a		*Rhubarb, fresh (vegetables)	271	
*Pitchers, sirup (glass tableware)	121a		Ribbons, computing and record- ing machine	169a	C188
Pitchers, water, cream and ice, (tableware, silver-plated)	411		Ribbons, hectograph	168a	C187
Plaster board, gypsum	285	C210	Ribbons, typewriter	167a	C186
Plaster, gypsum	247	C205	*Rice	647a	
Plaster, magnesia asbestos	211		Ring cushions, cloth inserted	226b	
Plastering trowels, cement, brick and pointing	584		Ring cushions, rubber	227b	
Plates, copper, bars, rods, shapes, sheets, and strips	467		Rings, rubber jar	51	
Plates, copper nickel alloy, rods, bars, shapes, sheets, and strips	585		Rivets (bolts, nuts, and machine screws)	548	
Plates, manganese bronze, rods, bars, and shapes	552		Road oil for hot application (type OH-1-25)	275	
Plates, nickel silver, rods, bars, shapes, sheets, and strips (Ger- man silver)	468		Road and pavement construction, asphalt for use in	276a	
Plates, steel, marine boiler	549		Road surface materials, for top- soil or sand clay	452	
Plumber's ladles	474		Rods, copper, bars, shapes, plates, sheets, and strips	467	
			Rods, copper nickel alloy, bars, plates, shapes, sheets, and strips	585	
			Rods, manganese bronze, bars, shapes, and plates	552	

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Rods, nickel silver, bars, shapes, plates, sheets, and strips (Ger- man silver).....	468	-----	Rubber gloves, surgeons'.....	229	C217
Rods, welding, nonferrous, for gas welding.....	269a	-----	Rubber goods, general specifica- tion for (methods of physical tests and chemical analysis) (price, 10 cents).....	59a	C232
Rollers, window shade, slats, cords and accessories.....	367b	C368	Rubber hose, metal, gasoline.....	136a	C269
Roof coating, asphalt fibrous.....	424	-----	Rubber hot-water bottles.....	221b	-----
Roofing, asphalt for mineral sur- faced.....	84	C159	Rubber ice bags.....	217	C227
Roofing, asphalt prepared.....	214	C192	Rubber insulation, 30 per cent, for wire and cable for general purposes.....	587	-----
Roofing, asphalt primer for, and waterproofing.....	87	C162	Rubber jar rings.....	51	-----
Roofing, asphalt saturated rag felt for, and waterproofing.....	86	C161	Rubber-lined fire hose, cotton (couplings and gaskets).....	38b	C114
Roofing, asphalt for unsurfaced built up.....	88	C168	Rubber matting.....	382	C306
Roofing, coal-tar pitch for.....	80	C157	Rubber matting, for use around electrical apparatus or circuits not exceeding 3,000 volts to ground.....	414	C312
Roofing, coal-tar saturated rag felt for, and waterproofing.....	81	C156	Rubber packing, cloth-insertion.....	110a	C236
Roofing, construction of built up, type 3ACS.....	148	C172	Rubber packing, wire-insertion.....	112a	C234
Roofing, construction of built up, type 3TCS.....	151	C175	†Rubber packings and gaskets (molded, sheet, and strip).....	111b	-----
Roofing, construction of built up, type 4ACS.....	149	C173	Rubber pillowcases.....	231a	-----
Roofing, construction of built up, type 4AWS.....	146	C170	Rubber pillows, air.....	232b	-----
Roofing, construction of built up, type 4TCS.....	152	C176	Rubber ring cushions.....	227b	-----
Roofing, construction of built up, type 4TWS.....	154	C178	Rubber sheeting.....	233b	-----
Roofing, construction of built up, type 5ACS.....	150	C174	Rubber stoppers.....	383	C308
Roofing, construction of built up, type 5AWS.....	147	C171	Rubber syringe, fountain.....	235b	-----
Roofing, construction of built up, type 6TCS.....	153	C177	Rubber tape, insulating.....	292	C230
Roofing, construction of built up, type 6TWS.....	155	C179	Rubber tips for crutches.....	225	C223
Roofing, installation of metal flashings with built-up bitu- minous.....	156	C180	Rubber tires, solid and pneu- matic, and inner tubes.....	3c	C115
Roofing, installation of plastic flashings with bituminous built up.....	157	C181	†Rubber tubing.....	39c	-----
Roofing, prepared, asbestos and asphalt, slate surfaced.....	423	-----	Rubber valves.....	114a	C244
Roofing, surfacing materials for bituminous built up.....	296	C285	Rugs, carpets and, Axminster.....	502	C353
Rope, cotton.....	82	C158	Rugs, carpets and, Wilton.....	503	C356
†Rope, manila.....	61b	-----	Rulers, desk.....	360	-----
Rope, wire (price, 15 cents).....	297	C208	Rules.....	419	-----
Rubber aprons, surgeons'.....	215b	-----	Rust-preventive compound, heavy.....	239	C200
Rubber bandages.....	219	C219	Safes, burglar-resisting.....	363	-----
Rubber bands.....	64a	C284	Safes and cabinets, insulated.....	60a	-----
Rubber boots, hip.....	492	C349	*Sage (condiments).....	364	-----
Rubber boots, short, heavy.....	494	C350	(Sal ammoniac), ammonium chloride.....	446	-----
Rubber boots, short, light.....	493	C348	*Salmon, canned (sea food).....	365a	-----
Rubber catheters.....	222	C225	*Salt (condiments).....	364	-----
Rubber cement for medical rub- ber goods.....	223	-----	Sand for cement grout filler, brick and stone block pavements.....	461	-----
Rubber-covered wires and cables for ordinary purposes.....	65	-----	Sand for cement mortar bed for brick, stone block, or wood block pavements.....	462	-----
Rubber dam.....	228	C218	Sand-lime brick, common.....	505	C347
Rubber finger cots.....	224a	-----	Sands for use in sheet asphalt or bituminous concrete pavements.....	460	-----
Rubber gloves for electrical work- ers (for use in connection with apparatus or circuits not ex- ceeding 3,000 volts to ground).....	312	C271	Sandblasting helmets.....	546	-----
			*Sardines, canned (sea food).....	365a	-----
			Sash cord, cotton braided.....	528	-----
			*Sauce, apple.....	621a	-----
			*Sauce, chili and Worcestershire type (condiments).....	364	-----
			*Sauerkraut, canned.....	630a	-----
			*Sausage, bologna style.....	575a	-----
			*Sausage, frankfurter style.....	574b	-----
			*Sausage, pork.....	573a	-----
			*Sausage, Vienna style, canned.....	576b	-----
			Saw blades, hack.....	415a	-----
			Saw frames, hack.....	479	-----
			Saw, hand, sets.....	440	-----
			Saws.....	480	-----

† Printed, see p. (ii) as to procurement.

## Alphabetical index of specifications—Continued

Title	Federal specifi- cation No.	Bureau of Stand- ards Circular No.	Title	Federal specifi- cation No.	Bureau of Stand- ards Circular No.
Scales, railroad-track	314	-----	Slag, broken, and broken stone for bituminous concrete base or surface course	458	-----
Scales, weighing, general specification for	473	-----	Slag, broken, and broken stone for bituminous macadam base or surface course	457	-----
*Scallions, green (vegetables)	271	-----	Slag, broken, broken stone, or gravel for bituminous surface treatment	455	-----
Scissors, shears and, office	361a	-----	Slag, broken and broken stone for waterbound base or wearing course	456	-----
Scouring powder for floors	34a	C370	Slate (plumbing fixtures for land use) (price, 15 cents)	448	C310
Scrapers, crumb (tableware, silver-plated)	411	-----	Slate-surfaced asphalt and asbestos prepared roofing	423	-----
Screws, wood	52a	C140	Slate-surfaced, asphalt prepared roofing and shingles	296	C285
Screws, machine, bolts and nuts	548	-----	Slats, window shades, cords, and accessories	367b	C368
Scribers, machinists'	441	-----	Sleeves, dredging	42	-----
*Sea food (fresh, salt, smoked, and canned)	365a	-----	Slicks, gouges, and chisels, wood-workers'	438	-----
Seams, stitches, and stitching (price, 20 cents)	384	C283	(Snips), tinners' hand shears	451	-----
Sets, hand saw	440	-----	Soap, automobile	30	C127
Shade cloth	555b	C364	Soap, chip	31	C180
Shades, window, rollers, slats, cords, and accessories	367b	C368	Soap, grit, cake	33a	C128
*Shakers, salt and pepper (glass tableware)	121a	-----	Soap, grit, hand	35	C132
Shakers, salt and pepper (tableware, silver-plated)	411	-----	Soap, laundry, ordinary	35	C129
Shapers, collar (laundry appliances)	551	-----	Soap, liquid	27	C124
Shapes, copper, bars, rods, plates, sheets, and strips	467	-----	Soap, liquid (for laundry use)	246	C193
Shapes, copper nickel alloy plates, sheets, strips, rods, and bars	585	-----	Soap powder	28	C125
Shapes, manganese bronze, rods, bars, and plates	552	-----	Soap, powdered (for laundry use)	245	C195
Shapes, nickel silver, rods, bars, plates, sheets, and strips (German silver)	468	-----	Soap, salt-water	29	C126
Shaves, spoke	450	-----	Soap, toilet, milled	244	C194
Shears and scissors, office	361a	-----	Soap, white, floating (for toilet use)	26	C123
Shears, tinners', hand (snips)	451	-----	Soapstones (plumbing fixtures for land use) (price, 15 cents)	448	C310
Sheeting, cotton, bleached wide	303	C273	Soda ash	429	C314
Sheeting, cotton, unbleached	301a	-----	*Soda, baking (sodium bicarbonate) (miscellaneous provisions)	389	-----
Sheeting, cotton, brown, wide	302	C278	Soda, caustic (lye), for cleaning purposes	430	C315
Sheeting, rubber	233b	-----	Soda, laundry (washing soda)	431	C316
Sheets, copper, bars, rods, shapes, plates, and strips	467	-----	Sodium carbonate, granular (monohydrate crystals)	432	C317
Sheet, copper nickel alloy rods, bars, shapes, plates, and strips	585	-----	Sodium cyanide (for use as an insecticide in fumigation)	355	-----
Sheets, cotton, bleached (medium and high-count sheeting)	304	C274	Sodium fluoride (insecticide)	354	-----
Sheets, nickel silver, rods, bars, shapes, plates, and strips (German silver)	468	-----	Sodium sulphite, anhydrous, for photography	586	-----
Shellac, flake orange	375	C302	Solder, silver	307	-----
Shellac varnish	376	C303	Solder, spelter (for brazing)	306	-----
Shields, welders' hand	547	-----	Solder, tin-lead	313	-----
Shingles and roofing, asphalt prepared, slate-surfaced	296	C285	Soldering coppers	439	-----
Shorts, brown and gray (feeds and forage)	25c	-----	*Spaghetti, macaroni, vermicelli	648a	-----
Shower fixtures (plumbing fixtures for land use) (price, 15 cents)	448	C310	Spelter solder (for brazing)	306	-----
Silicon copper	119	-----	Spelter (zinc, slab)	91a	-----
Silicon, ferro	145	-----	*Spices, ground (condiments)	364	-----
Silver, nickel, rods, bars, shapes, plates, sheets, and strips (German silver)	468	-----	Spiegeleisen	273	-----
Silver solder	307	-----	Spikes, tacks, staples, and nails	534	-----
Sinks (plumbing fixtures for land use) (price, 15 cents)	448	C310	*Spinach, canned	631a	-----
Sirup	315b	-----	Spinach, fresh	271	-----
Sizes of hosiery, measuring	92	-----	Spoons, dessert, soup, tea, and table (tableware, silver-plated)	411	-----
Slag, broken, and broken stone for binder course, sheet asphalt pavement	459	-----	Spring bottom, adjustable (Gatch frame)	189	-----
			Squares, T	602	-----
			*Squash, summer, winter, or Hubbard (vegetables)	271	-----
			Stands, tables, and wood	478	-----
			Staples, nails, spikes, and tacks	534	-----
			Staybolt, steel, boiler	550	-----

† Printed, see p. (ii) as to procurement.

## Alphabetical index of specifications—Continued

Title	Federal specifi- cation No.	Bureau of Stand- ards Circu- lar No.	Title	Federal specifi- cation No.	Bureau of Stand- ards Circu- lar No.
Steel blooms, billets, slabs, and bars for reforcing, carbon and alloy.....	316	-----	Tape, friction.....	291	C229
Steel castings.....	170	-----	Tape, rubber-insulating.....	292	C230
Steel plates, marine boiler.....	549	-----	Tapioca.....	644a	-----
Steel (semi), high-test gray iron castings.....	140	-----	Tar, coal, pitch for roofing.....	80	C157
Steel, staybolt, boiler.....	550	-----	Tar, coal, pitch for waterproofing and damp proofing.....	83	C155
Steel, structural, for bridges.....	351a	-----	Tar, coal, saturated rag felt for roofing and waterproofing.....	81	C156
Steel, structural, for buildings.....	352a	-----	Tar, refined, for construction.....	282	-----
Steel, structural, for cars.....	373a	-----	Tar, refined, for hot application (type TH-1-25).....	280	-----
Steel, structural nickel.....	372	-----	Tar for use in repair work.....	281	-----
Steel, structural, for ships other than naval vessels.....	469	-----	Tars for cold application.....	279	-----
Steel tubes, seamless, for aircraft purposes.....	490	-----	*Tea.....	649b	-----
Steel unions, malleable iron or.....	393	-----	Tent duck (special construction for bleaching or dyeing, gray).....	160	C167
Steel unions, 300 pound malleable iron or.....	580	-----	†Textile materials, general specifi- cation for (methods of physical and chemical tests).....	345a	-----
Steel welding wire, iron and.....	174	-----	Thermometers, clinical.....	309	-----
Sterilizers, dressing containers and stands, portable lockers for use in conjunction with steril- izers, electric heaters, and steam sterilizing apparatus.....	68a	-----	Thermometers, industrial.....	472a	-----
Stitches, seams, and stitching (price, 20 cents).....	384	C283	Threads, pipe.....	238	-----
Stone, broken, broken slag for bituminous concrete base or surface course.....	458	-----	Thumbtacks.....	600	-----
Stone, broken, and broken slag for bituminous macadam base or surface course.....	457	-----	Thyme (condiments).....	364	-----
Stone, broken, broken slag, or gravel for bituminous surface treatment.....	455	-----	†Ticking, mattress and pillow.....	615a	-----
Stone, broken, and broken slag for binder course, sheet asphalt pavement.....	459	-----	Tile, clay, hollow, floor.....	506	C344
Stone, broken, and broken slag for waterbound base or wearing course.....	456	-----	Tile, clay, hollow, load-bearing wall.....	507	C342
Stoppers, rubber.....	383	C308	Tile, clay, hollow, fireproofing, partition and furring.....	508	C343
Straightedges.....	599	-----	Tin-lead solder.....	313	-----
Straw (feeds and forage).....	25c	-----	Tin, phosphor.....	116	-----
Strips, copper, rods, bars, shapes, sheets, and plates.....	467	-----	Tin, pig.....	90	-----
Strips, copper nickel alloy rods, bars, shapes, plates, and sheets.....	585	-----	Tips for crutches, rubber.....	225	C223
Strips, nickel silver, bars, rods, shapes, plates, and sheets (Ger- man silver).....	468	-----	†Tires, bicycle, single tube and clincher.....	581	-----
Studs (machine screws, bolts, and nuts).....	548	-----	Tires, pneumatic, solid rubber and inner tubes.....	3c	C115
*Sugar.....	579b	-----	Titanium, ferro.....	144	-----
(Sulphate, mono-methyl-para- aminophenol) metol.....	421	-----	Titanium-zinc paint, outside white (semipaste and ready mixed).....	278	C215
Sulphite, sodium, anhydrous, for photography.....	586	-----	*Tomatoes, canned.....	632a	-----
Sweep, floor, hair.....	400a	-----	Tomatoes, fresh.....	271	-----
Switches, knife.....	175	-----	*Tongue, beef, canned.....	562a	-----
Switches, snap.....	62	-----	Toothbrush.....	202	-----
Syringe, cloth-inserted fountain.....	234b	-----	Towels, crash.....	653	-----
Syringe, rubber fountain.....	235b	-----	Towels, glass, cotton.....	616	-----
Syrup. (See Sirup.).....	500	C351	†Towels, huck, office (with woven name).....	422a	-----
Tablecloths, cotton.....	478	-----	Tracing cloth.....	591	-----
Tables and stands, wood.....	121a	-----	Tracing cloth, printed.....	592	-----
*Tableware, glass.....	411	-----	Tracing paper.....	598	-----
Tableware, silver-plated.....	534	-----	Trays (tableware, silver-plated).....	411	-----
Tacks, staples, nails, and spikes.....	270	-----	Trays, office sectional furniture, cabinets, wood.....	359a	-----
*Tangerines (fruits and fruit products).....	448	C310	Triangles.....	601	-----
Tanks, hot-water (plumbing fixtures for land use) (price, 15 cents).....	448	C310	Trisodium phosphate, technical (phosphate cleaner).....	558	C369
			Trowels, plastering, cement, brick, and pointing.....	584	-----
			T-squares.....	602	-----
			Tube, colon.....	236	C221
			Tube, stomach or lavage.....	237	C220
			Tubes, boiler, iron, lapwelded charcoal.....	349	-----
			Tubes, boiler, lapwelded and seamless steel.....	347	-----
			Tubes, condenser, and tubes for ferule stock (Admiralty metal).....	374	-----
			Tubes, inner, pneumatic and solid tires, rubber.....	3c	C115
			Tubes, radio receiving electron.....	410	-----

† Printed, see p. (ii) as to procurement.

## Alphabetical index of specifications—Continued

Title	Federal specifi- cation No.	Bureau of Stand- ards Circu- lar No.	Title	Federal specifi- cation No.	Bureau of Stand- ards Circu- lar No.
Tubes, seamless steel, for aircraft purposes.....	490	-----	Water heaters (plumbing fixtures for land use) (price, 15 cents)....	448	C310
Tubing, brass, seamless.....	427a	-----	*Watermelons (fruits and fruit products).....	270	-----
Tubing, copper, seamless, and pipe, copper, seamless, standard iron pipe size.....	287	-----	Waterproofing, asphalt for, and damp proofing.....	85	C160
Tubing, flexible, nonmetallic.....	57	-----	Waterproofing, asphalt primer for roofing and.....	87	C162
†Tubing, rubber.....	39c	-----	Waterproofing, asphalt saturated rag felt for roofing and.....	86	C161
Tubs, stationary (laundry appliances).....	551	-----	Waterproofing, asphalt-saturated, woven cotton fabric for.....	294	C287
*Tumbler (glass tableware).....	121a	-----	Waterproofing, coal-tar pitch for and damp proofing.....	83	C155
*Tuna fish, canned (sea food).....	365a	-----	Waterproofing, coal-tar saturated rag felt for roofing and.....	81	C156
Tureens, soup (tableware, silver-plated).....	411	-----	Waterproofing material, integral (for use with Portland cement mortar or concrete).....	444a	C360
*Turkeys, fresh, chilled and frozen (meat and meat-food products).....	267	-----	Wax, sealing.....	420	-----
*Turnips, white and yellow (vegetables).....	271	-----	Welders' goggles.....	543	-----
Turpentine (gum spirits of turpentine and steam distilled wood turpentine).....	7b	C86	Welders' hand shields.....	547	-----
Twine, cotton.....	530	-----	Welders' helmets.....	544	-----
Twine, cotton seine.....	529	-----	Welding rods, nonferrous for gas welding.....	269a	-----
Unions, malleable iron or steel.....	393	-----	Welding wire, iron and steel.....	174	-----
Unions, 300-pound, malleable iron or steel.....	580	-----	Wheat, red dog, grain (feeds and forage).....	25c	-----
Urinals (plumbing fixtures for land use) (price, 15 cents).....	448	C310	Window shades, rollers, slats, cords, and accessories.....	367b	C368
Valves (plumbing fixtures for land use) (price, 15 cents).....	448	C310	Wire rope (price, 15 cents).....	297	C208
Valves, rubber.....	114a	C244	Wire, spring, phosphor bronze.....	532	-----
Vanadium, ferro.....	135	-----	Wire, welding, iron and steel.....	174	-----
Varnish, asphalt.....	19	C104	Wire and cable, 30 per cent rubber insulation, for general purposes.....	587	-----
Varnish, interior.....	22	C117	Wires and cables, rubber covered, for ordinary purposes.....	65	-----
Varnish, shellac.....	376	C303	Wood preservatives, and processes of treatment.....	395	-----
Varnish, spar, water resisting.....	18b	C103	†Wool bunting.....	497a	-----
*Veal.....	572a	-----	†Wool waste, colored.....	264a	C260
*Vegetables (fresh, and dried).....	271	-----	*Yeast (miscellaneous provisions).....	389	-----
*Vermicelli spaghetti, macaroni.....	643a	-----	Zinc oxide, dry and paste.....	8	C87
*Vinegars (condiments).....	364	-----	Zinc oxide, leaded, dry, and paste.....	9	C88
Vitrified chinaware.....	243a	-----	Zinc paint, titanium, outside white (semipaste and ready mixed).....	278	C215
Waiters (tableware, silver-plated).....	411	-----	Zinc plates, sheets, and strips.....	531	-----
Wall board, gypsum.....	284	C211	Zinc, slab (spelter).....	91a	-----
Waste, cotton, colored.....	263a	C263			
Waste, cotton, white.....	262a	C262			
Waste, wool, colored.....	264a	C260			
Water-closets (plumbing fixtures for land use) (price, 15 cents).....	448	C310			
Water coolers.....	617	-----			

† Printed, see p. (n) as to procurement.

# NUMERICAL LIST OF SPECIFICATIONS

Federal specification No.	Bureau of Standards Circular No.	Title	Federal specification No.	Bureau of Standards Circular No.	Title
1a	C33	Cement, Portland. (Price, 10 cents.)	44b	C289	Divers' hose.
2d	( <sup>1</sup> )	Lubricants and liquid fuels and methods for sampling and testing. (Price, 15 cents.)	45	-----	Spray hose.
3c	C115	Tires, pneumatic and solid rubber, and inner tubes.	46c	C288	Hose, tender (corrugated).
4b	C361	Oil, linseed, raw.	47	-----	Chemical hose.
5	C84	Basic carbonate white lead, dry and paste.	48c	C268	†Hose, water and wash deck.
6	C85	Basic sulphate white lead, dry and paste.	49b	-----	Steam hose.
7b	C86	Turpentine (gum spirits of turpentine and steam-distilled wood turpentine).	50b	-----	†Hose, water suction (smooth bore).
8	C87	Zinc oxide, dry and paste.	51	-----	Rubber jar rings.
9	C88	Leaded zinc oxide, dry and paste.	52a	C140	Screws, wood.
10b	C89	Paint, white, and tinted paints made on a white base, semi-paste and ready mixed.	53	C136	Numbered cotton duck.
11	C90	Red lead, dry and paste.	54	-----	Asbestos millboard.
12	C91	Ocher, dry and paste.	55	-----	Cutout bases.
13b	C93	Paints, iron oxide and iron hydroxide.	56	-----	Nonrefillable cartridge inclosed fuses.
14b	C94	Paint, black, semipaste and ready mixed.	57	-----	Flexible nonmetallic tubing.
15	C97	Green paint, semipaste and ready mixed.	58a	C139	Cells and batteries, dry.
16	C98	Volatile mineral spirits for thinning paints.	59a	C232	General specifications for rubber goods (methods of physical tests and chemical analysis). (Price, 10 cents.)
17	C102	Composite vehicle for thinning semipaste paints when the use of straight linseed oil is not justified.	60a	-----	Safes and cabinets, insulated.
18b	C103	Varnish, spar, water resisting.	61b	-----	†Rope, manila.
19	C104	Asphalt varnish.	62	-----	Snap switches.
20a	-----	Paint, drier, liquid.	63c	-----	†Hose, oil suction and discharge.
21b	C111	Paint, interior lithopone, white and light tints, flat or eggshell finish (semipaste and ready mixed).	64a	C284	Rubber bands.
22	C117	Interior varnish.	65	-----	Rubber-covered wires and cables for ordinary purposes.
23c	-----	†Lamps, incandescent electric, large, tungsten filament.	66	C146	Water-resisting red enamel.
24	-----	Lumber (grading and inspection rules, adopted by the various lumber manufacturing associations of the United States).	67	C147	Gloss interior lithopone paint, white and light tints.
25c	-----	Feeds and forage.	68a	-----	Sterilizers, dressing containers and stands, portable lockers for use in conjunction with sterilizers, electric heaters, and steam sterilizing apparatus.
26	C123	White floating soap (for toilet use).	69	-----	Canceled Apr. 8, 1926.
27	C124	Liquid soap.	70	-----	Do.
28	C125	Soap powder.	71	-----	Do.
29	C126	Salt-water soap.	72	-----	Do.
30	C127	Automobile soap.	73	-----	Cottonseed oil (edible grade).
31	C128	Chip soap.	74	-----	Canceled Apr. 8, 1926.
32	C129	Ordinary laundry soap.	75	-----	Do.
33a	C130	Soap, grit cake.	76	-----	Do.
34a	C370	Powder, scouring, for floors.	77	-----	Olive oil (edible grade).
35	C132	Hand grit soap.	78	-----	Canceled Apr. 8, 1926.
36a	C134	Fire-extinguishing liquid (carbon tetrachloride base).	79	-----	Do.
37	C148	Leather belting.	80	C157	Coal-tar pitch for roofing.
38b	C114	Cotton rubber-lined fire hose (couplings and gaskets).	81	C156	Coal-tar saturated rag felt for roofing and waterproofing.
39c	-----	†Tubing, rubber.	82	C158	Surfacing materials for bituminous built-up roofing.
40b	C290	Gas hose.	83	C155	Coal-tar pitch for waterproofing and damp proofing.
41b	C307	Hose, pneumatic.	84	C159	Asphalt for mineral-surfaced roofing.
42	-----	Dredging sleeves.	85	C160	Asphalt for waterproofing and damp proofing.
43	-----	Air-brake and signal hose and gaskets.	86	C161	Asphalt-saturated rag felt for roofing and waterproofing.
			87	C162	Asphalt primer for roofing and waterproofing.
			88	C168	Asphalt for unsurfaced built-up roofing.
			89	-----	Manganese-bronze ingots (for remelting).
			90	-----	Pig tin.
			91a	-----	Zinc, slab (spelter).
			92	-----	Measuring sizes of hosiery.
			93	-----	Asbestos-copper gaskets, corrugated.

<sup>1</sup>Printed, see p. (ii) as to procurement.

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

## Numerical list of specifications—Continued

Federal specification No.	Bureau of Standards Circular No.	Title	Federal specification No.	Bureau of Standards Circular No.	Title
94b	C243	Packing, asbestos metallic cloth sheet.	150	C174	Construction of built-up roofing, type 5ACS.
95	-----	Asbestos valve-stem packing.	151	C175	Construction of built-up roofing, type 3TCS.
96c	-----	Packing, asbestos sheet, compressed.	152	C176	Construction of built-up roofing, type 4TCS.
97b	C242	Gaskets, asbestos metallic cloth.	153	C177	Construction of built-up roofing, type 5TCS.
98a	C240	Diaphragm packing.	154	C178	Construction of built-up roofing, type 4TWS.
99	-----	Fabric condenser-tube packing.	155	C179	Construction of built-up roofing, type 5TWS.
100	-----	Fiber packing for lubricating and fuel oil.	156	C180	Installation of metal flashings with bituminous built-up roofing.
101c	C363	Packing, flax.	157	C181	Installation of plastic flashings with bituminous built-up roofing.
102	-----	Flexible metallic packing.	158	-----	Hair felt.
103a	C238	Asbestos high-pressure rod packing.	159	C166	Light-weight duck (Army duck, gray).
104a	C237	Low-pressure spiral-gland packing.	160	C167	Tent duck (special construction for bleaching or dyeing, gray).
105	-----	Metallic packing (fixed-ring type).	161b	-----	*Coffee.
106	-----	Plastic metallic packing.	162a	-----	Pipe, welded steel (black and galvanized).
107a	-----	Semimetallic packing.	163	C182	Record and copying ink.
108	-----	Solid metallic packing (floating-ring type).	164	C183	Writing ink.
109	-----	Canceled May 22, 1928. (See F. S. B. No. 96c.)	165	C184	Red ink.
110a	C236	Cloth-insertion rubber packing.	166	C185	Stamp-pad ink.
111b	-----	†Packing and gaskets, rubber (molded, sheet, and strip).	167a	C186	Ribbons, typewriter.
112a	C234	Wire-insertion rubber packing.	168a	C187	Ribbons, hectograph.
113a	C233	Tucks packing.	169a	C188	Ribbons, computing and recording machine.
114a	C244	Rubber valves.	170	-----	Steel castings.
115	-----	Canceled Oct. 21, 1929.	171a	-----	Ship chain.
116	-----	Phosphor tin.	172a	-----	Bronze castings.
117	-----	Pig lead.	173a	-----	Aluminum bronze ingots (for remelting).
118	-----	Phosphor copper.	174	-----	Welding wire, iron and steel.
119	-----	Silicon copper.	175	-----	Knife switches.
120	-----	Ingot copper.	176	-----	Renewable cartridge inclosed fuses.
121a	-----	*Tableware, glass.	177a	-----	Canceled June 20, 1929. (See Joint Committee on Printing Paper Specifications issued by Government Printing Office.)
122	-----	Glass lantern globes and lamp chimneys.	178a	-----	Do.
123	C164	Flat glass for glazing purposes.	179	-----	No. 1 grade blue-print paper (sensitized and unsensitized).
124	-----	Hand chemical fire extinguisher (1 quart carbon-tetrachloride type).	180	-----	No. 2 grade blue-print paper (sensitized and unsensitized).
125	-----	Ground chrome ore.	181	-----	No. 3 grade blue-print paper (sensitized and unsensitized).
126a	-----	Iron, pig, foundry.	182a	-----	Paper, brown process (sensitized and unsensitized).
127a	-----	Canceled June 20, 1929. (See Joint Committee on Printing Paper Specifications issued by Government Printing Office.)	183	C212	Upholstery leather.
128a	-----	Do.	184	C213	Lace leather.
129a	-----	Do.	185	-----	(Withdrawn May 16, 1929.)
130a	-----	Do.	186a	-----	Beds, hospital.
131a	-----	Do.	187a	-----	Beds, surgical.
132a	-----	Do.	188	-----	Folding hospital cot.
133a	-----	Do.	189	-----	Adjustable spring bottom (Gatch frame).
134	-----	Aluminum ingot.	190	-----	Liberty steel cot.
135	-----	Ferrovandium.	191	-----	Brush, blacking, and dauber.
136a	C269	Rubber-metal gasoline hose.	192	-----	Brush, casting.
137a	C165	Paint, olive-drab (semipaste and ready mixed).	193	-----	Brush, clothes scrubbing.
138	-----	Ferromanganese.	194	-----	Brush, cuspidor.
139	-----	Ferrocchrome.	195a	-----	Brushes, dauber, long paddle.
140	-----	High-test gray-iron castings (semisteel).	196	-----	Brush, deck scrubbing.
141	-----	Gray-iron castings.	197	-----	Brush, hand floor scrubbing.
142	-----	Manganese ore.	198	-----	Brush, hair, military.
143	-----	Ferromolybdenum.	199	-----	Brush, radiator dustin.
144	-----	Ferrotitanium.	200	-----	Brush, shaving.
145	-----	Ferrosilicon.	201	-----	Brush, sidewalk.
146	C170	Construction of built-up roofing, type 4AWS.	202	-----	Brush, tooth.
147	C171	Construction of built-up roofing, type 5AWS.			
148	C172	Construction of built-up roofing, type 3ACS.			
149	C173	Construction of built-up roofing, type 4ACS.			

† Printed, see p. (n) as to procurement.

## Numerical list of specifications—Continued

Federal specification No.	Bureau of Standards Circular No.	Title	Federal specification No.	Bureau of Standards Circular No.	Title
203	-----	Brush, window.	266a	C197	Ink, marking, indelible, for fabrics.
204	-----	Broom, rattan push.	267	-----	*Meat and meat-food products.
205	-----	Broom, rattan (upright).	268a	C299	Brick, fire-clay.
206	-----	Broom, scrubbing.	269a	-----	Rods, welding, nonferrous, for gas welding.
207	-----	Broom, wire push.	270	-----	*Fruits (fresh and dried) and fruit products.
208a	-----	Duster, counter.	271	-----	*Vegetables (fresh and dried).
209	C191	Battleship linoleum.	272	-----	Naval and commercial brass castings.
210	C190	Plain, inlaid, and printed linoleum.	273	-----	Spiegeliesen.
211	-----	Magnesia asbestos plaster.	274	-----	(Withdrawn May 27, 1929.)
212	-----	Magnesia molded pipe covering and blocks.	275	-----	Road oil for hot application (type OH-1-25).
213	-----	Hand chemical fire extinguishers (soda-and-acid type).	276a	-----	Asphalt for use in road and pavement construction.
214	C192	Asphalt prepared roofing.	277	-----	Petroleum asphalt for joint filler (squeegee or pouring method), Type PAF-1-25.
215b	-----	Surgeons' rubber aprons.	278	C215	Outside white titanium-zinc paint (semipaste and ready mixed).
216a	-----	Helmet-shaped ice bag.	279	-----	Tars for cold application.
217	C227	Rubber ice bags.	280	-----	Refined tar for hot application (type TH-1-25).
218	C222	Poltitzer bags.	281	-----	Tar for use in repair work.
219	C219	Rubber bandages.	282	-----	Refined tar for construction.
220b	-----	Cloth-inserted hot-water bottle.	283	C216	Putty.
221b	-----	Rubber hot-water bottles.	284	C211	Gypsum wall board.
222	C225	Rubber catheters.	285	C210	Gypsum plaster board.
223	-----	Rubber cement for medical rubber goods.	286	-----	Brass castings to be brazed.
224b	-----	Rubber finger cots.	287	-----	Tubing, copper, seamless, and pipe, copper, seamless, standard iron pipe size.
225	C223	Rubber tips for crutches.	288	-----	Cotton, absorbent.
226b	-----	Cloth-inserted ring cushions.	289	-----	Gauze, plain.
227b	-----	Rubber ring cushions.	290a	-----	Bronze ingots (for remelting).
228	C218	Rubber dam.	291	C229	Friction tape.
229	C217	Surgeons' rubber gloves.	292	C230	Rubber insulating tape.
230b	-----	Surgical operating pads.	293	-----	Canceled Mar. 27, 1929.
231a	-----	Rubber pillow cases.	294	C287	Asphalt-saturated woven cotton fabric for waterproofing.
232b	-----	Rubber air pillows.	295	C286	Asphalt-saturated rag felt for flashings.
233a	C253	Rubber sheeting.	296	C285	Slate-surfaced, asphalt prepared roofing and shingles.
234b	-----	Cloth-inserted fountain syringe.	297	C208	Wire rope. (Price, 15 cents.)
235b	-----	Rubber fountain syringe.	298	-----	Bandage, gauze, compressed.
236	C221	Colon tube.	299	-----	Bandage, plain gauze roller, assorted.
237	C220	Stomach or lavage tube.	300	-----	Bandage, plaster of Paris.
238	-----	Pipe threads.	301a	-----	Sheeting, cotton, unbleached.
239	C200	Heavy rust-preventive compound.	302	C278	Brown wide cotton sheetings.
240	-----	Folding canvas cot.	303	C273	Bleached wide cotton sheetings.
241	C158	Sole leather.	304	C274	Bleached cotton sheets (medium and high count sheeting).
242a	-----	Wrought iron pipe, uncoated and zinc coated (galvanized).	305	C277	Bleached cotton pillow cases.
243a	-----	Chinaware, vitrified.	306	-----	Spelter solder (for brazing).
244	C194	Milled toilet soap.	307	-----	Silver solder.
245	C195	Powdered soap (for laundry use).	308	-----	Sheet lead.
246	C193	Liquid soap (for laundry use).	309	-----	Thermometers, clinical.
247	C205	Gypsum plaster.	310	-----	Petroleum ether.
248	C206	Calcined gypsum.	311	-----	Rigid conduit, enameled.
249	C204	Hydrated lime for structural purposes.	312	C271	Rubber gloves for electrical workers (for use in connection with apparatus or circuits not exceeding 3,000 volts to ground).
250	C201	Quicklime for structural purposes.	313	-----	Tin-lead solder.
251a	C255	Cheesecloth for wiping purposes.	314	-----	Railroad track scales.
252b	C258	Cheesecloth, unbleached.	315b	-----	*Sirup.
253b	C365	Cheesecloth, bleached.	316	-----	Steel blooms, billets, slabs, and bars, for reforging, carbon and alloy.
254c	-----	†Denim, brown (shrunken).	317a	-----	*Oatmeal and rolled oats.
255b	-----	†Denim, brown (unshrunken).			
256c	-----	†Denim, blue (shrunken).			
257b	-----	†Denim, blue (unshrunken).			
258b	-----	†Cloth, airplane, mercerized cotton, grade A.			
259a	C261	Rags, cotton, colored, for wiping machinery (sterilized).			
260	C267	Wiping cloths.			
261a	C264	Rags, cotton, white, for wiping machinery (sterilized).			
262a	C262	Cotton waste, white.			
263a	C263	Cotton waste, colored.			
264a	C260	Wool waste, colored.			
265a	C196	Ink, drawing, black waterproof.			

† Printed, see p. (iv) as to procurement.

## Numerical list of specifications—Continued

Federal specification No.	Bureau of Standards Circular No.	Title	Federal specification No.	Bureau of Standards Circular No.	Title
318	-----	Eosin Y (C. I. No. 768).	372	-----	Structural nickel steel.
319	-----	Canceled June 20, 1929. (See Joint Committee on Printing Paper Specifications issued by Government Printing Office).	373a	-----	Steel, structural, for cars.
320	-----	Do.	374	-----	Condenser tubes and tubes for ferrule stock (Admiralty metal).
321	-----	Do.	375	C302	Shellac, flake orange.
322	-----	Do.	376	C303	Varnish, shellac.
323	-----	Do.	377	-----	Paper fasteners, brass.
324	-----	Do.	378a	-----	Castings, iron, malleable.
325	-----	Do.	379	-----	Withdrawn Oct. 21, 1929.
326	-----	Do.	380	-----	Cement, asphalt plastic.
327	-----	Do.	381a	-----	* Dairy products.
328	-----	Do.	382	C306	Matting, rubber.
329	-----	Do.	383	C308	Stoppers, rubber.
330	-----	Do.	384	C283	Stitches, seams, and stitching. (Price, 20 cents.)
331a	-----	Do.	385b	-----	Paper, flint.
332	-----	Whisk brooms.	385a	-----	Paper, garnet.
333a	-----	Brooms, corn.	387b	-----	Cloth, abrasive, aluminum oxide.
334a	C298	Clay, fire.	388b	-----	Cloth, emery.
335a	C297	Refractories, fire-clay, plastic.	389	-----	* Miscellaneous provisions.
336	C275	Builders' hardware. (Price, 15 cents.)	390	-----	Polish, silver.
337	-----	Compressed cork (cork board).	391	-----	Iron bar, wrought, refined.
338	-----	Ground cork for insulating purposes.	392	-----	Brass rods, bars, shapes, plates, sheets, and strips, commercial.
339a	-----	Metals, general specifications for.	393	-----	Unions, malleable iron or steel.
340	-----	Polishing paste.	394	-----	General specification for paper.
341	-----	Liquid metal polish.	395	-----	Preservatives, wood, and processes of treatment.
342a	-----	Pipe, brass, seamless, iron pipe size, standard and extra strong.	396a	-----	Brushes, calcimine.
343a	-----	Pipe and fittings, soil, cast iron, coated and uncoated.	397a	-----	Brushes, dust, ceiling and wall.
344	-----	Cheesecloth remnants for wiping purposes.	398	-----	Brush, fiber garage.
345a	-----	† Textile materials, general specifications for (methods of physical and chemical tests).	399b	-----	Brushes, flat fitch.
346	-----	Nonrenewable plug fuses.	400a	-----	Sweep, floor, hair.
347	-----	Lapwelded and seamless steel boiler tubes.	401b	-----	Brushes, glue, round.
348	-----	Standard miscellaneous chain and attachments.	402a	-----	Brush, glue, flat.
349	-----	Lapwelded charcoal iron boiler tubes.	403a	-----	Brushes, lacquering, flat.
350a	-----	Bars, concrete reinforcement.	404b	-----	Brushes, marking.
351a	-----	Steel, structural for bridges.	405a	-----	Brushes, mottling.
352a	-----	Steel, structural for buildings.	406b	-----	Brushes, sash tool, oval.
353	-----	Insect powder (pyrethrum powder).	407	-----	Brush, hand scrub, white tam-pico.
354	-----	Sodium fluoride (insecticide).	408	-----	Furniture and cabinets, office steel sectional.
355	-----	Sodium cyanide (for use as an insecticide in fumigation).	409	-----	Chairs, office.
356	-----	Dental amalgam alloy.	410	-----	Tubes, radio receiving electron.
357	-----	Boilable catgut ligatures (surgical catgut suture material).	411	-----	Tableware, silver plated.
358a	-----	Desks, wood.	412	-----	Paste, office and library.
359a	-----	Furniture, office sectional, cabinets and trays, wood.	413a	-----	Padlocks.
360	-----	Rulers, desk.	414	C312	Matting, rubber, for use around electrical apparatus or circuits not exceeding 3,000 volts to ground.
361a	-----	Shears and scissors, office.	415a	-----	Blades, hack saw.
362	-----	Liquid measuring devices, retail type.	416	-----	Braces, ratchet.
363	-----	Burglar-resisting safes.	417	-----	Drills, breast.
364	-----	* Condiments.	418	-----	Pullers, nail.
365a	-----	* Sea food (fresh, salt, smoked, and canned).	419	-----	Rules.
366a	-----	Calendar stands and pads.	420	-----	Wax, sealing.
367b	C368	Shades, window, shade cloth rollers, slats, cords, and accessories. (See F. S. No. 555b.)	421	-----	Metol (mono-methyl-para-amino phenol sulphate).
368	-----	Sponge and pin cups.	422a	-----	† Towels, huck, office (with woven name)
369a	-----	Aluminum bronze castings.	423	-----	Roofing, prepared, asphalt and asbestos, slate-surfaced.
370	-----	Manganese bronze castings.	424	-----	Roof coating, asphalt fibrous.
371	-----	Nickel, for remelting.	425	-----	Paper, carbon, black, light weight (for typewriter use).
			426	-----	Paper, carbon, black, standard weight (for typewriter use).
			427a	-----	Tubing, brass, seamless.
			428	C318	Matches, safety (full size, in boxes)
			429	C314	Soda ash.
			430	C315	Soda, caustic (lye) (for cleaning purposes).
			431	C316	Soda, laundry (washing soda).

† Printed, see p. (n) as to procurement.

## Numerical list of specifications—Continued

Federal specification No.	Bureau of Standards Circular No.	Title	Federal specification No.	Bureau of Standards Circular No.	Title
432	C317	Sodium carbonate, granular (monohydrate crystals).	469	-----	Steel, structural, for ships other than naval vessels.
433	-----	Hatchets.	470	-----	Calcium carbide.
434	-----	Bars, chisels, crow and pinch.	471	-----	Cupboard and locker equipment, steel.
435	-----	Cutters, glass.	472a	-----	Thermometers, industrial.
436	-----	Dividers.	473	-----	Scales, weighing, general specification for.
437	-----	Cutters, pipe.	474	-----	Ladles, plumber's.
438	-----	Chisels, gouges, and slicks, wood-workers'.	475b	C362	Oil, linseed, boiled.
439	-----	Coppers, soldering.	476	C331	Chrome yellow (lemon, medium and orange; dry paste in oil and paste in japan).
440	-----	Sets, hand saw.	477	-----	Desks, steel.
441	-----	Scribers, machinists'.	478	-----	Tables and stands, wood.
442	-----	Knives, shoe.	479	-----	Frames, saw, hack.
443	C321	Cement, masonry.	480	-----	Saws.
444a	C360	Integral waterproofing material, water-repellant type (for use with Portland cement, mortar, or concrete).	481	-----	Jacks.
445	C323	Cement, plastic magnesia (magnesia-oxychloride), used as flooring, bases, wainscots, etc.	482	C338	Leather, bag.
446	-----	Ammonium chloride (sal ammoniac).	483a	-----	†Leather, rigging.
447	C326	Rope, cotton.	484a	-----	Cancelled June 20, 1929. (See Joint Committee on Printing Paper Specifications issued by Government Printing Office).
448	C310	Plumbing fixtures (for land use). (Price, 15 cents.)	485	C336	Gaskets, metallic encased.
449	-----	Adzes.	486	C335	Packing, hard fiber sheet.
450	-----	Shaves, spoke.	487	C334	Packings, asbestos wick and rope.
451	-----	Shears, tinners', hand (snips).	488	-----	Knives, drawing.
452	-----	Materials for top-soil or sand-clay road surfaces.	489	-----	Pipe fittings, cast-iron (threaded).
453	-----	Gravel for gravel roads.	490	-----	Tubes, seamless steel, for aircraft purposes.
454	-----	Coarse aggregate for Portland cement concrete pavement or base (stone, slag, and gravel).	491	-----	Fans, electric, dresk and bracket type.
455	-----	Broken stone, broken slag, or gravel for bituminous surface treatment.	492	C349	Boots, rubber, hip.
456	-----	Broken stone and broken slag for waterbound base or wearing course.	493	C348	Boots, rubber, short, light.
457	-----	Broken stone and broken slag for bituminous macadam base or surface course.	494	C350	Boots, rubber, short, heavy.
458	-----	Broken stone and broken slag for bituminous concrete base or surface course.	495	-----	Pipe, concrete, plain.
459	-----	Broken stone and broken slag for binder course, sheet asphalt pavement.	496	C340	Leather, hydraulic packing (vegetable tanned).
460	-----	Sands for use in sheet asphalt or bituminous concrete pavements.	497a	-----	†Bunting, wool.
461	-----	Sand for cement grout filler, brick and stone block pavements.	498	C357	Oilcloth, table, white.
462	-----	Sand for cement mortar bed for brick, stone block, or wood block pavements.	499	C332	Burlap, jute.
463	-----	Mineral filler for sheet asphalt or asphaltic concrete pavements (Portland cement, limestone dust, and dolomite dust).	500	C351	Tablecloths, cotton.
464	-----	Fine aggregate for Portland cement concrete pavement or base (sand, etc.).	501	C354	Carpets, velvet, plain.
465	-----	Materials for cushion course, brick, stone block, or wood block pavement (sand, slag, limestone screenings, etc.).	502	C353	Carpets and rugs, Axminster.
466	-----	Belting, conveyor (stitched duck).	503	C356	Carpets and rugs, Wilton.
467	-----	Copper rods, bars, shapes, plates, sheets, and strips.	504	C345	Brick, clay, common.
468	-----	Silver, nickel, rods, bars, shapes, plates, sheets, and strips (German silver).	505	C347	Brick, sand-lime, common.
			506	C344	Tile, hollow, clay, floor.
			507	C342	Tile, hollow, clay, load-bearing wall.
			508	C343	Tile, hollow, clay, fireproofing, partition and furring.
			509	-----	Drills, hand, with hollow handle.
			510	-----	Block for granite, re-cut granite, and durax granite pavements.
			511	-----	Brooms, metal case.
			512a	-----	Brushes, flowing, badger hair.
			513a	-----	Brushes, flowing, squirrel tail hair.
			514a	-----	Brushes, flowing, skunk hair.
			515a	-----	Brushes, paint, flat metal bound (high grade).
			516a	-----	Brushes, paint, flat metal bound (medium grade).
			517a	-----	Brushes, radiator bronzing.
			518a	-----	Brushes, roof, knotted style, 3 knots.
			519a	-----	Brushes, stencil (flag ends cut).
			520a	-----	Brushes, stencil (flag ends preserved).
			521a	-----	Brushes, varnish, flat (triple X thickness).
			522a	-----	Brushes, varnish, flat (double X thickness).
			523	-----	Brushes, wall stippling.
			524b	-----	Brushes, whitewash.

† Printed, see p. (ii) as to procurement.

## Numerical list of specifications—Continued

Federal specification No.	Bureau of Standards Circular No.	Title	Federal specification No.	Bureau of Standards Circular No.	Title
525a	-----	Dusters, painters', flat.	586	-----	Sodium sulphite, anhydrous, for photography.
526a	-----	Dusters, painters', round.	587	-----	Insulation, 30 per cent rubber, for wire and cable for general purposes.
527	C358	Hose, fire, unlined linen.	588	-----	Hose, water, braided.
528	-----	Cord, sash, cotton braided.	589	-----	Board, bristol.
529	-----	Twine, cotton, seine.	590	-----	Board, illustrating.
530	-----	Twine, cotton.	591	-----	Cloth, tracing.
531	-----	Zinc plates, sheets, and strips.	592	-----	Cloth, tracing, printed.
532	-----	Wire, spring, phosphor-bronze.	593	-----	Instruments, drawing (first-grade in sets).
533a	-----	Lumber, softwood, yard and factory.	594	-----	Paper, detail drawing.
534	-----	Nails, spikes, tacks, and staples.	595	-----	Paper, drawing.
535	-----	Pipe fittings, malleable iron (threaded) (150-lb.).	596	-----	Paper, drawing, printed.
536	-----	Metal, antifriction, ingots and castings.	597	-----	Paper, drawing, ruled.
537	-----	Pipe, water, centrifugally cast iron.	598	-----	Paper, tracing.
538	-----	Receptacles, waste-paper, fiber, office and lobby.	599	-----	Straightedges.
539	-----	Erasers, steel.	600	-----	Thumbtacks.
540a	-----	Netting, mosquito (unbleached bobbinet).	601	-----	Triangles.
541	-----	Goggles, for protection against flying particles and chips.	602	-----	T-squares.
542	-----	Goggles, rubber frame.	603b	-----	Lard substitutes.
543	-----	Goggles, welders'.	604a	-----	Apples, canned.
544	-----	Helmets, welders'.	605a	-----	Apricots, canned.
545	-----	Masks, babbiting.	606a	-----	Cherries, canned.
546	-----	Helmets, sandblasting.	607a	-----	Peaches, canned.
547	-----	Shields, welders' hand.	608a	-----	Pears, canned.
548	-----	Bolts, nuts, and machine screws.	609a	-----	Pineapple, canned.
549	-----	Steel plates, marine boiler.	610a	-----	Prunes, canned.
550	-----	Steel, stay bolt, boiler.	611	-----	Bunting, cotton.
551	-----	Laundry appliances.	612	-----	Cloth, bird's-eye (diaper).
552	-----	Bronze, manganese, rods, bars, shapes, and plates.	613	-----	Flannel, cotton.
553	-----	†Metal bases for plaster and stucco construction.	614	-----	Jeans, bleached.
554a	-----	Mucilage.	615a	-----	†Ticking, mattress and pillow.
555b	C364	Shade cloth. (See F. S. No. 367 b.)	616	-----	Towels, glass, cotton.
556	C366	Percale.	617	-----	Coolers, water.
557	C367	Drill (unbleached).	618	-----	†Lamps, electric, incandescent, miniature, tungsten filament.
558	C369	Trisodium phosphate, technical (phosphate cleaner).	619a	-----	Beef.
559a	-----	Bacon, canned.	620	-----	Bedspreads, crinkle.
560a	-----	Bacon, sweet-pickled, smoked.	621a	-----	Apple sauce.
561a	-----	Beef, corned, canned.	622a	-----	Gasoline, motor, United States Government.
562a	-----	Beef tongue, canned.	623	-----	Motor fuel V.
563a	-----	Beef, dried, sliced, canned.	624a	-----	Asparagus, canned.
564a	-----	Head cheese.	625a	-----	Beans, string, canned.
565a	-----	Hams, sweet-pickled, smoked.	626a	-----	Beets, canned.
566a	-----	Hearts, beef.	627a	-----	Corn, canned.
567a	-----	Kidneys, beef.	628a	-----	Peas, canned.
568a	-----	Liver, beef.	629a	-----	Pumpkin, canned.
569a	-----	Luncheon meat.	630a	-----	Sauerkraut, canned.
570a	-----	Mutton.	631a	-----	Spinach, canned.
571a	-----	Pork.	632a	-----	Tomatoes, canned.
572a	-----	Veal.	633	-----	Towels, crash, mixed linen and cotton.
573a	-----	Sausage, pork.	†643a	-----	Fruits, dried (evaporated).
574b	-----	Sausage, frankfurter-style.	635a	-----	Jams.
575a	-----	Sausage, bologna-style.	636a	-----	Barley, pearl.
576b	-----	Sausage, Vienna-style, canned.	637a	-----	Biscuit.
577	-----	Acetone.	638a	-----	Cornmeal (white or yellow).
578	-----	Castings, copper, nickel alloy.	639a	-----	Cornstarch.
579b	-----	Sugar.	640a	-----	Crackers, soda.
580	-----	Unions, 300-pound malleable iron or steel.	641a	-----	Flour, wheat.
581	-----	†Tires, bicycle, single tube and clincher.	642a	-----	Flour, buckwheat.
582	-----	Paper, abrasive, artificial, waterproof.	643a	-----	Flour, graham (whole wheat meal).
583	-----	Paper, garnet, waterproof.	644a	-----	Tapioca.
584	-----	Trowels, plastering, cement, brick, and pointing.	645a	-----	Hominy grits and hominy grits, coarse.
585	-----	Copper nickel alloy rods, bars, shapes, plates, sheets, and strips.	646a	-----	Hominy, lye, canned.
			647a	-----	Rice.
			648a	-----	Spaghetti, macaroni, and vermicelli.
			649b	-----	Tea.
			650b	-----	Cocoa.
			651b	-----	Chocolate.

† Printed, see p. (ii) as to procurement.

# 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.

### 291 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 291 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.

### 199 COLLEGE RESEARCH LABORATORIES

To accompany the list of commercial testing laboratories there has been compiled a list of 199 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

DEPARTMENT OF COMMERCE  
BUREAU OF STANDARDS  
GEORGE K. BURGESS, Director

### DIRECTORY OF COMMERCIAL TESTING AND COLLEGE RESEARCH LABORATORIES

MISCELLANEOUS PUBLICATION No. 90

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 248 Federal specifications. Copies of any of the 248 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,

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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 Mr. Hoover, then Secretary of Commerce, 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.