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BY THE FEDERAL SPECIFICATIONS BOARD**

(COMPLETE TO NOVEMBER 1, 1929)

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(Complete to November 1, 1929)



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Dry cells and batteries	58a	C139			
Drying tumblers (laundry appliances)	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.

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Title	Federal specification No.	Bureau of Standards Circular No.	Title	Federal specification No.	Bureau of Standards Circular No.
*Foods. (See Provisions.)			*Grapes (fruits and fruit products)	270	-----
Forage, feeds and.....	25c	-----	Gravel, broken stone, broken slag or, for bituminous surface treatment.....	455	-----
Forks, dessert and dinner (tableware, 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 testing (price, 15 cents).....	2d	(1)	Hair felt.....	158	-----
Furniture and cabinets, office, sectional, steel.....	408	-----	*Hams, sweet pickled, smoked.....	565a	-----
Furniture, office, sectional cabinets and trays, wood.....	359a	-----	Hardware, builders' (price, 15 cents).....	336	C275
Fuses, nonrefillable, cartridge inclosed.....	56	-----	Hatchets.....	433	-----
Fuses, plug, nonrenewable.....	346	-----	Hay (feeds and forage).....	25c	-----
Fuses, renewable, cartridge inclosed.....	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, corrugated.....	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, assorted.....	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
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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 fixtures for land use) (price, 15 cents).....	448	C310
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Goggles, rubber frame.....	542	-----	Ingot, aluminum.....	134	-----
Goggles, welders.....	543	-----	Ingot copper.....	120	-----
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Granite, block for, recut granite, and durax granite pavements.....	510	-----	Ingots, antifriction metal, and castings.....	536	-----
*Grapefruit (fruits and fruit products).....	270	-----	Ingots, bronze (for remelting).....	290a	-----
			Ingots, manganese bronze (for remelting).....	89	-----
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			Ink, marking, indelible, for fabrics.....	266a	C197
			Ink, record and copying.....	163	C182
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† Printed, see p. (u) as to procurement.

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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 (carbon tetrachloride base).....	36a	C134
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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
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Iron unions, or steel, malleable.....	393	-----	Lumber, softwood, yard and factory.....	533a	-----
Iron unions, 300-pound, malleable, or steel.....	580	-----	*Luncheon meat.....	569a	-----
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*Kale (vegetables).....	271	-----	Magnesia cement, plastic (magnesia-oxychloride) used as flooring, bases, wainscots, etc.....	445	C323
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*Kidneys, beef.....	567a	-----	Manganese bronze castings.....	370	-----
Knife. (See Erasers, steel.).....	-----	-----	Manganese bronze ingots (for remelting).....	89	-----
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Knives, shoe.....	442	-----	Manganese, ferro.....	138	-----
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†Lamps, electric, incandescent, miniature, tungsten filament.....	618	-----	Matches, safety (full size in boxes).....	428	C318
*Lard substitutes.....	603a	-----	Matting, rubber.....	382	C306
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† Printed, see p. (ii) as to procurement.

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*Mutton	570a	-----	Packing, tucks	113a	C233
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Nickel, copper, alloy castings	578	-----	Pads, surgical operating	230b	-----
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*Oatmeal and rolled oats	317a	-----	Paint, white, and tinted paints made on a white base, semipaste and ready mixed	10b	C89
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Oil, linseed, raw	4b	C361	Paper, abrasive, artificial, waterproof	179	-----
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Oilcloth, table, white	498	C357	Paper, blue print, No. 3 grade (sensitized and unsensitized)	182a	-----
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*Oleomargarine (dairy products)	381a	-----	Paper, carbon, black, light weight (for typewriter use)	426	-----
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*Oranges (fruits and fruit products)	270	-----	Paper, detail drawing	595	-----
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Ore, manganese	142	-----	Paper, drawing, printed	597	-----
Oxide, leaded zinc, dry and paste	9	C88	Paper, drawing, ruled	377	-----
Oxide, zinc, dry and paste	8	C87	Paper, fasteners, brass	385b	-----
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*Oysters, fresh (sea food)	365a	-----	Paper, garnet, waterproof	583	-----
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Packing, asbestos metallic cloth sheet	94b	C243	Paper, tracing	271	-----
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Packing, diaphragm	98a	C240	Paste, polishing	340	-----
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Packing, flax	101c	C363			
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† Printed, see p. (11) as to procurement.

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*Peaches, fresh, and evaporated (fruits and fruit products)	270		Polish, liquid metal	341	
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*Pears, fresh, evaporated (fruits and fruit products)	270		Polishing paste	340	
*Peas, canned	628a		Porcelain ware (plumbing fixtures for land use) (price, 15 cents)	448	C310
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*Pepper (condiments)	364		*Potatoes, Irish, sweet (vegetables)	271	
*Peppers, green, sweet (vegetables)	271		Pots, coffee, tea, chocolate (tableware, silver-plated)	411	
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Petroleum asphalt for joint filler (squeeze or pouring method) type PAF-1-25	277		Powder, scouring, for floors	34a	C370
Petroleum ether	310		Powder, soap	28	C125
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Phosphor bronze spring wire	532		Preservatives, wood, and processes of treatment	395	
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Phosphor tin	116		*Provisions, miscellaneous	389	
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*Pickles (condiments)	364		*Prunes, evaporated, dried	634a	
Pillowcases, cotton, bleached	305	C277	Pullers, nail	418	
Pillowcases, rubber	231a		Pulleys (builders' hardware) (price, 15 cents)	336	C275
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Pillow ticking and mattress	615a		Pumpkin, fresh	271	
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*Pineapple, canned	609a		Pyrethrum powder (insect powder)	353	
*Pineapples, fresh (fruits and fruit products)	270		Quicklime for structural purposes	250	C201
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Pipe, copper, seamless, and tubing, copper, seamless, standard iron pipe size	287		Rag felt for flashings, asphalt saturated	295	C286
Pipe covering and blocks, magnesia 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)	489		*Raisins, dried	634a	
Pipe fittings, malleable iron (threaded) (150 lb.)	535		Receiptacles, waste paper, fiber	538	
Pipe threads	288		Red lead, dry and paste	11	C90
Pipe, water, centrifugally cast iron	537		Refractories, plastic fire clay	335a	C297
Pipe, welded steel (black and galvanized)	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 recording 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	
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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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Roofing, coal-tar saturated rag felt for, and waterproofing.....	81	C156	Rubber packing, cloth-insertion.....	110a	C236
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Rubber boots, short, light.....	493	C348	*Salmon, canned (sea food).....	365a	-----
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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 workers (for use in connection with apparatus or circuits not exceeding 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. (tt) as to procurement.

## Alphabetical index of specifications—Continued

Title	Federal specification No.	Bureau of Standards Circular No.	Title	Federal specification No.	Bureau of Standards 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	C128
Shades, window, rollers, slats, cords, and accessories	367b	C368	Soap, grit, cake	33a	C130
*Shakers, salt and pepper (glass tableware)	121a	-----	Soap, grit, hand	35	C129
Shakers, salt and pepper (tableware, silver-plated)	411	-----	Soap, laundry, ordinary	32	C124
Shapers, collar (laundry appliances)	551	-----	Soap, liquid	27	-----
Shapes, copper, bars, rods, plates, sheets, and strips	467	-----	Soap, liquid (for laundry use)	246	-----
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. (U) as to procurement.

## Alphabetical index of specifications—Continued

Title	Federal specification No.	Bureau of Standards Circular No.	Title	Federal specification No.	Bureau of Standards Circular No.
Steel blooms, billets, slabs, and bars for reforging, 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 specification 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 sterilizers, 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 (German 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.).....	-----	-----	†Towels, huck, office (with woven name).....	422a	-----
Tablecloths, cotton.....	500	C351	Tracing cloth.....	591	-----
Tables and stands, wood.....	478	-----	Tracing cloth, printed.....	592	-----
*Tableware, glass.....	121a	-----	Tracing paper.....	598	-----
Tableware, silver-plated.....	411	-----	Trays (tableware, silver-plated).....	411	-----
Tacks, staples, nails, and spikes.....	534	-----	Trays, office sectional furniture, cabinets, wood.....	359a	-----
*Tangerines (fruits and fruit products).....	270	-----	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 ferrule 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 specification No.	Bureau of Standards Circular No.	Title	Federal specification No.	Bureau of Standards Circular 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.....	648a		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	(1)	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		†Hose, water and wash deck.
6	C85	Basic sulphate white lead, dry and paste.	49b	C268	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, semipaste 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.

†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 5A CS.
95	-----	Asbestos valve-stem packing.	151	C175	Construction of built-up roofing, type 3T CS.
96c	-----	Packing, asbestos sheet, compressed.	152	C176	Construction of built-up roofing, type 4T CS.
97b	C242	Gaskets, asbestos metallic cloth.	153	C177	Construction of built-up roofing, type 5T CS.
98a	C240	Diaphragm packing.	154	C178	Construction of built-up roofing, type 4T WS.
99	-----	Fabric condenser-tube packing.	155	C179	Construction of built-up roofing, type 5T WS.
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	-----	†Packings 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	-----	Ferrocrome.	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 4A WS.	202	-----	Brush, tooth.
147	C171	Construction of built-up roofing, type 5A WS.			
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 (squeeze 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	Poltzer 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	-----	Rubber catheters.	285	C210	Gypsum plaster board.
223	C225	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	-----	Rubber sheeting.	296	C285	Slate-surfaced, asphalt prepared roofing and shingles.
234b	C253	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	C198	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.
254e	-----	†Denim, brown (shrunken).	317a	-----	*Oatmeal and rolled oats.
255b	-----	†Denim, brown (unshrunken).			
256e	-----	†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. (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
318	-----	Eosin Y (C. I. No. 768).	372	-----	Structural nickel steel.
319	-----	Canceled June 20, 1929. (See	373a	-----	Steel, structural, for cars.
		Joint Committee on Printing	374	-----	Condenser tubes and tubes for
		Paper Specifications issued by			ferrule stock (Admiralty metal).
		Government Printing Office).	375	C302	Shellac, flake orange.
320	-----	Do.	376	C303	Varnish, shellac.
321	-----	Do.	377	-----	Paper fasteners, brass.
322	-----	Do.	378a	-----	Castings, iron, malleable.
323	-----	Do.	379	-----	Withdrawn Oct. 21, 1929.
324	-----	Do.	380	-----	Cement, asphalt plastic.
325	-----	Do.	381a	-----	* Dairy products.
326	-----	Do.	382	C306	Matting, rubber.
327	-----	Do.	383	C308	Stoppers, rubber.
328	-----	Do.	384	C283	Stitches, seams, and stitching.
329	-----	Do.			(Price, 20 cents.)
330	-----	Do.	385b	-----	Paper, flint.
331a	-----	Do.	385a	-----	Paper, garnet.
332	-----	Whisk brooms.	387b	-----	Cloth, abrasive, aluminum oxide.
333a	-----	Brooms, corn.	388b	-----	Cloth, emery.
334a	C298	Clay, fire.	389	-----	* Miscellaneous provisions.
335a	C297	Refractories, fire-clay, plastic.	390	-----	Polish, silver.
336	C275	Builders' hardware. (Price, 15 cents.)	391	-----	Iron bar, wrought, refined.
			392	-----	Brass rods, bars, shapes, plates, sheets, and strips, commercial.
337	-----	Compressed cork (cork board).	393	-----	Unions, malleable iron or steel.
		Ground cork for insulating purposes.	394	-----	General specification for paper.
339a	-----	Metals, general specifications for.	395	-----	Preservatives, wood, and processes of treatment.
340	-----	Polishing paste.	396a	-----	Brushes, calcimine.
341	-----	Liquid metal polish.	397a	-----	Brushes, dust, ceiling and wall.
342a	-----	Pipe, brass, seamless, iron pipe size, standard and extra strong.	398	-----	Brush, fiber garage.
343a	-----	Pipe and fittings, soil, cast iron, coated and uncoated.	399b	-----	Brushes, flat fit.
344	-----	Cheesecloth remnants for wiping purposes.	400a	-----	Sweep, floor, hair.
345a	-----	† Textile materials, general specifications for (methods of physical and chemical tests).	401b	-----	Brushes, glue, round.
			402a	-----	Brush, glue, flat.
346	-----	Nonrenewable plug fuses.	403a	-----	Brushes, lacquering, flat.
347	-----	Lapwelded and seamless steel boiler tubes.	404b	-----	Brushes, marking.
			405a	-----	Brushes, mottling.
348	-----	Standard miscellaneous chain and attachments.	406b	-----	Brushes, sash tool, oval.
349	-----	Lapwelded charcoal iron boiler tubes.	407	-----	Brush, hand scrub, white tam-pico.
350a	-----	Bars, concrete reinforcement.	408	-----	Furniture and cabinets, office steel sectional.
351a	-----	Steel, structural for bridges.	409	-----	Chairs, office.
352a	-----	Steel, structural for buildings.	410	-----	Tubes, radio receiving electron.
553	-----	Insect powder (pyrethrum powder).	411	-----	Tableware, silver plated.
			412	-----	Paste, office and library.
354	-----	Sodium fluoride (insecticide).	413a	-----	Padlocks.
355	-----	Sodium cyanide (for use as an insecticide in fumigation).	414	C312	Matting, rubber, for use around electrical apparatus or circuits not exceeding 3,000 volts to ground.
356	-----	Dental amalgam alloy.	415a	-----	Blades, hack saw.
357	-----	Boilable catgut ligatures (surgical catgut suture material).	416	-----	Braces, ratchet.
			417	-----	Drills, breast.
358a	-----	Desks, wood.	418	-----	Drills, nail.
359a	-----	Furniture, office sectional, cabinets and trays, wood.	419	-----	Rules.
360	-----	Rulers, desk.	420	-----	Wax, sealing.
361a	-----	Shears and scissors, office.	421	-----	Metol (mono-methyl-para-amino phenol sulphate).
362	-----	Liquid measuring devices, retail type.	422a	-----	† Towels, huck, office (with woven name)
363	-----	Burglar-resisting safes.	423	-----	Roofing, prepared, asphalt and asbestos, slate-surfaced.
364	-----	* Condiments.	424	-----	Roof coating, asphalt fibrous.
365a	-----	* Sea food (fresh, salt, smoked, and canned).	425	-----	Paper, carbon, black, light weight (for typewriter use).
366a	-----	Calendar stands and pads.	426	-----	Paper, carbon, black, standard weight (for typewriter use).
367b	C368	Shades, window, shade cloth rollers, slats, cords, and accessories. (See F. S. No. 555b.)	427a	-----	Tubing, brass, seamless.
			428	C318	Matches, safety (full size, in boxes).
368	-----	Sponge and pin cups.	429	C314	Soda ash.
369a	-----	Aluminum bronze castings.	430	C315	Soda, caustic (lye) (for cleaning purposes).
370	-----	Manganese bronze castings.	431	C316	Soda, laundry (washing soda).
371	-----	Nickel, for remelting.			

† 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, tinnerns', 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	C352	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 firing.
			509	-----	Drills, hand, with hollow handle.
			510	-----	Block for granite, recut 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.	-----	-----	-----
527	C358	Hose, fire, unlined linen.	587	-----	Insulation, 30 per cent rubber, for wire and cable for general purposes.
528	-----	Cord, sash, cotton braided.	-----	-----	-----
529	-----	Twine, cotton, seine.	-----	-----	-----
530	-----	Twine, cotton.	588	-----	Hose, water, braided.
531	-----	Zinc plates, sheets, and strips.	589	-----	Board, bristol.
532	-----	Wire, spring, phosphor-bronze.	590	-----	Board, illustrating.
533a	-----	Lumber, softwood, yard and factory.	591	-----	Cloth, tracing.
534	-----	Nails, spikes, tacks, and staples.	592	-----	Cloth, tracing, printed.
535	-----	Pipe fittings, malleable iron (threaded) (150-lb.).	593	-----	Instruments, drawing (first-grade in sets).
536	-----	Metal, antifriction, ingots and castings.	594	-----	Paper, detail drawing.
537	-----	Pipe, water, centrifugally cast iron.	595	-----	Paper, drawing.
538	-----	Receptacles, waste-paper, fiber, office and lobby.	596	-----	Paper, drawing, printed.
539	-----	Erasers, steel.	597	-----	Paper, drawing, ruled.
540a	-----	Netting, mosquito (unbleached bobbinet).	598	-----	Paper, tracing.
541	-----	Goggles, for protection against flying particles and chips.	599	-----	Straightedges.
542	-----	Goggles, rubber frame.	600	-----	Thumbtacks.
543	-----	Goggles, welders'.	601	-----	Triangles.
544	-----	Helmets, welders'.	602	-----	T-squares.
545	-----	Masks, babbiting.	603b	-----	Lard substitutes.
546	-----	Helmets, sandblasting.	604a	-----	Apples, canned.
547	-----	Shields, welders' hand.	605a	-----	Apricots, canned.
548	-----	Bolts, nuts, and machine screws.	606a	-----	Cherries, canned.
549	-----	Steel plates, marine boiler.	607a	-----	Peaches, canned.
550	-----	Steel, stay bolt, boiler.	608a	-----	Pears, canned.
551	-----	Laundry appliances.	609a	-----	Pineapple, canned.
552	-----	Bronze, manganese, rods, bars, shapes, and plates.	610a	-----	Prunes, canned.
553	-----	†Metal bases for plaster and stucco construction.	611	-----	Bunting, cotton.
554a	-----	Mucilage.	612	-----	Cloth, bird's-eye (diaper).
555b	C364	Shade cloth. (See F. S. No. 367 b.)	613	-----	Flannel, canton.
556	C366	Percale.	614	-----	Jeans, bleached.
557	C367	Drill (unbleached).	615a	-----	†Ticking, mattress and pillow.
558	C369	Trisodium phosphate, technical (phosphate cleaner).	616	-----	Towels, glass, cotton.
559a	-----	Bacon, canned.	617	-----	Coolers, water.
560a	-----	Bacon, sweet-pickled, smoked.	618	-----	†Lamps, electric, incandescent, miniature, tungsten filament.
561a	-----	Beef, corned, canned.	619a	-----	Beef.
562a	-----	Beef tongue, canned.	620	-----	Bedspreads, crinkle.
563a	-----	Beef, dried, sliced, canned.	621a	-----	Apple sauce.
564a	-----	Head cheese.	622a	-----	Gasoline, motor, United States Government.
565a	-----	Hams, sweet-pickled, smoked.	623	-----	Motor fuel V.
566a	-----	Hearts, beef.	624a	-----	Asparagus, canned.
567a	-----	Kidneys, beef.	625a	-----	Beans, string, canned.
568a	-----	Liver, beef.	626a	-----	Beets, canned.
569a	-----	Luncheon meat.	627a	-----	Corn, canned.
570a	-----	Mutton.	628a	-----	Peas, canned.
571a	-----	Pork.	629a	-----	Pumpkin, canned.
572a	-----	Veal.	630a	-----	Sauerkraut, canned.
573a	-----	Sausage, pork.	631a	-----	Spinach, canned.
574b	-----	Sausage, frankfurter-style.	632a	-----	Tomatoes, canned.
575a	-----	Sausage, bologna-style.	633	-----	Towels, crash, mixed linen and cotton.
576b	-----	Sausage, Vienna-style, canned.	†643a	-----	Fruits, dried (evaporated).
577	-----	Acetone.	635a	-----	Jams.
578	-----	Castings, copper, nickel alloy.	636a	-----	Barley, pearl.
579b	-----	Sugar.	637a	-----	Biscuit.
580	-----	Unions, 300-pound malleable iron or steel.	638a	-----	Cornmeal (white or yellow).
581	-----	†Tires, bicycle, single tube and clincher.	639a	-----	Cornstarch.
582	-----	Paper, abrasive, artificial, waterproof.	640a	-----	Crackers, soda.
583	-----	Paper, garnet, waterproof.	641a	-----	Flour, wheat.
584	-----	Trowels, plastering, cement, brick, and pointing.	642a	-----	Flour, buckwheat.
585	-----	Copper nickel alloy rods, bars, shapes, plates, sheets, and strips.	643a	-----	Flour, graham (whole wheat meal).
			644a	-----	Tapioca.
			645a	-----	Hominy grits and hominy grits, coarse.
			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,

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 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.

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