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> U. S. DEPARTMENT OF COMMERCE BUREAU OF STANDARDS

ALPHABETICAL INDEX and NUMERICAL LIST OF FEDERAL SPECIFICATIONS PROMULGATED BY THE FEDERAL SPECIFICATIONS BOARD

(COMPLETE TO NOVEMBER 1, 1929)

CIRCULAR OF THE BUREAU OF STANDARDS, No. 378

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PUBLISHED AT WASHINGTON, D. C.

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CIRCULAR OF THE BUREAU OF STANDARDS, No. 378

[Supersedes Circular 371]

ALPHABETICAL INDEX AND NUMERICAL LIST

OF

FEDERAL SPECIFICATIONS

PROMULGATED BY THE

FEDERAL SPECIFICATIONS BOARD

(Complete to November 1, 1929)



UNITED STATES
GOVERNMENT PRINTING OFFICE
WASHINGTON: 1929

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ALPHABETICAL INDEX OF SPECIFICATIONS

Title	Federal specifi- cation No.	Bureau of Stand- ards Circu- lar No.	Title	Federal specifi- cation No.	Bureau of Stand- ards Circu- lar No.
Abrasive cloth, aluminum oxide Abrasive paper, artificial, water-	387b		Asphalt-saturated woven cotton fabric for waterproofing	294	C287
proof	582		Asphalt for unsurfaced built-up	88	C100
Absorbent cotton	288 577		Asphalt for use in road and pave-	00	C168
Adzes	449		ment construction	276a	
Aggregate, coarse, for Portland cement concrete pavement or			Asphalt for waterproofing and	85	C160
base (stone, slag, and gravel) Aggregate, fine, for Portland ce-	454		damp proofing Asphalt varnish (Babbitt metal.) (See Antifric- tion metal castings and ingots.)	19	C104
ment concrete pavement or base (sand, etc.)	464		Babbitting masks	545	
†Airplane cloth, cotton, mercerized, grade A	258b		*Bacon, canned *Bacon, sweet-pickled, smoked	559a 560a	
Alfalfa, meal and hay (feeds and			Bag, ice, helmet shaped	216a	C227
Alloy, copper, nickel, rods, bars,	25c		Bags, ice, rubber Bags, Politzer	217 218	C227 C222
shapes, plates, sheets, and strips_	585		*Bananas (fruits and fruit prod-		0222
Allspice (condiments)	364 369a		Bandage, gauze, compressed	270 298	
Aluminum bronze ingots (for	309a		Bandage, plain gauze roller, as-		
remelting)	173a		sorted	299 300	
Aluminum ingot	134 387b		Bandage, plaster of Paris Bandages, rubber	219	C219
Amalgam, dental, alloy	356		Bands, rubber	64a	C284
Ammonium chloride (sal ammo- niae)	446		Barley (feeds and forage) *Barley, pearl	25c 636a	
Antifriction metal castings and			Bars, chisel, crow and pinch	434	
ingots- *Apples, canned-	536 604a		Bars, concrete reinforcement Bars, copper, rods, shapes, plates.	350a	
*Apples, fresh, evaporated (fruits			Bars, copper, rods, shapes, plates, sheets, and strips	467	
and fruit products) *Applesauce	270 621a		Bars, copper nickel alloy, rods, plates, shapes, sheets and strips_	585	
Apricots, canned	605a		Bars, manganese bronze, rods,	000	
*Apricots, dried Aprons, surgeon's rubber	634a 215b		shapes, and plates	552	
Asbestos and asphalt, roofing,	2100		Bars, nickel silver, rods, shapes, plates, sheets, and strips (Ger-		
prepared, slate-surfaced	423		man silver)	468	
Asbestos, copper gaskets, corru- gated.	93		Bases, cutout	55	
Asbestos high-pressure rod pack-	100		stucco construction	553	
Asbestos metallic cloth gaskets	103a 97b	C238 C242	Baskets. (See Receptacles.) Bathtubs (plumbing fixtures for		
Asbestos metallic cloth sheet			land use) (price, 15 cents)	448	C310
packing Asbestos millboard	94b 54	C243	*Beans, dry and canned (miscel-	58a	C139
Asbestos plaster, magnesia	211		laneous provisions)	389	
Asbestos sheet packing, com- pressed	96e		*Beans, lima, green, or wax (vegetables)	271	
Asbestos valve stem packing	95		*Beans, string (canned)	625a	
Asbestos wick and rope packings*Asparagus, fresh (vegetables)	487 271	C334	Beds, hospital Beds, surgical	186a 187a	
Asparagus, canned	624a		Hedspreads, crinkle	620	
Asphalt and asbestos, slate-sur-	423	1	*Beef	619a 561a	
faced, prepared roofingAsphalt, fibrous, roof coating	423		*Beef. *Beef, corned, canned* Beef, dried, sliced, canned* *Beef hearts*	563a	
Asphalt for mineral surfaced			*Beef hearts	566a 567a	
Asphalt, petroleum, for joint filler (squeegee or pouring method)	84	C159	*Beef kidneys *Beef liver *Beef tongue, canned	568a 562a	
type PAF-1-25 Asphalt plastic cement	277 380		Beet pulp (feeds and forage) *Beets, bloods trimmed (vege-	25e	
Aspnait prepared rooming	214	C192	tables)	271	
Asphalt, prepared roofing and	296	Coor	*Beets, canned	626a	
Asphalt primer for roofing and	290	C285	Belting, conveyor (stitched duck). Belting, leather	37	C148
waterproofing Asphalt-saturated rag felt for	. 87	C162	*Berries, blackberries, blueberries,		
masinings	295	C286	gooseberries, strawberries, rasp- berries, cranberries, and logan-		
Asphalt-saturated rag felt for roofing and waterproofing	. 86	C161	berries, cranberries, and logan- berries (fruits and fruit prod- ucts)	270	

[†] Printed, see p. (II) as to procurement.

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Title	Federal specifi- cation No.		Title	Federal specifi- cation No.	Bureau of Stand- ards Circu- lar No.
Bibbs (plumbing fixtures for land use) (price, 15 cents)	448	C310	Brush, hair, military_ Brush, hand scrub, white tampico_ Brush, radiator-dusting	198 407 199	
clincher *Biscuit	581 637a		Brush, shaving Brush, sidewalk	200	
Bituminous built-up roofing, sur- facing materials for	82	C158	Brush, tooth Brush, window	201 202	
Blades, hacksaw	415a	C158	Britshes, calcimine	203 396a	
Block for granite, recut granite, and durax granite pavements	510		Brushes, dauber, long paddle———————————————————————————————————	195a 397a	
Board, bristol	589 285		Brushes, flat fitch	399b	
Board, gypsum wall	284	C210 C211	Brushes, flowing, badger hair Brushes, flowing, squirrel-tail	512a	
Board, illustrating Boards, ironing (laundry appli-	590		hair Brushes, flowing, skunk hair	513a 514a	
ances) Boats, gravy (tableware, silver-	551		Brushes, glue, flat	402a	
plated)	411		Brushes, glue, round Brushes, lacquering, flat	401b 403a	
Bobbinet, unbleached (mosquito netting)	540a		Brushes, marking Brushes, mottling	404b 405a	
Boiler plates, steel, marine	549		Brushes, paint, flat metal bound		
Boiler staybolt, steel	550		(high-grade) Brushes, paint, flat metal bound	515a	
15 cents) Bolts, nuts, and machine screws	336 548	C275	(medium grade) Brushes, radiator bronzing	516a 517a	
Boots, rubber, hip	492	C349	Brushes, roof, knotted style, 3		
Boots, rubber, short, light	494 493	C350 C348	Brushes, sash tool, oval	518a 406b	
*Bottle, vinegar (glass tableware)	220b 121a		Brushes, sash tool, oval Brushes, stencil (flag ends cut) Brushes, stencil (flag ends pre-	519a	
*Bottle, vinegar (glass tableware) Bottles, hot-water, rubber Bowls, gravy (tableware, gilver	221b		served)	520a	
Bowls, gravy (tableware, silver-plated)	411		Brushes, varnish, flat (triple X thickness)	521a	
Braces, ratchet	416 25e		Brushes, varnish, flat (double X thickness)		
Brass castings, naval and com- mercial			Brushes, wall stippling	522a 523	
Brass castings to be brazed	272 286		Brushes, whitewash Builders' hardware (price, 15	524b	
Brass pipe, seamless, iron pipe size, standard and extra strong	342a		cents) Buildings, steel, structural for	336 352a	C275
Brass rods, bars, shapes, plates,		1	Bunting, cotton	611	
Brass rods, bars, shapes, plates, sheets, and strips, commercial Brass tubing, seamless. Brick, clay, common Brick, clay, fire. Brick, sand-line, common Brick, sand-line, common Brick, sand-line, common Brick, sand-line, common Brick rowels Placticing occasion.	392 427a		†Bunting, wool Burlap, jute	497a 499	C352
Brick, clay, common Brick, clay, fire	504 268a	C345 C299	Burlap, jute- *Butter (dairy products)- Butts (builders' hardware) (price, 15 cents)	381a	
Brick trowels plastering coment	503	C299 C347		336	C275
Brick trowels, plastering, cement, and pointing	584		*Cabbage (vegetables)_ Cabinet locks (builders' hard-	271	
Bristol board	351a 589		ware) (price, 15 cents) Cabinets and furniture, steel,	336	C275
Bronze, aluminum, ingots (for re-	173a		onice sectional	408	
melting) Bronze castings	172a		Cabinets, insulated safes and Cabinets and trays, office sec-	60a	
Bronze castings, aluminum Bronze castings, manganese	369a 370		tional furniture (wood) Cable and wire, insulation for,	359a	
Bronze ingots (for remelting) Bronze, manganese, ingots (for	290a		30 per cent rubber, for general	F07	
remelting)	89		Cables, wires and, rubber covered.	587	
Bronze, manganese, rods, bars, shapes, and plates	552		for ordinary purposes Calcium carbide	65 470	
Bronze, phosphor, spring wire Broom, rattan push	532		Calendar stands and pads	366a	
Broom, rattan (upright) Broom, scrubbing	205		*Cantaloupe (fruits and fruit products)	270	
Broom, wire push	206 207		Canvas cot, folding Carbide, calcium	240 470	
Brooms, corn			Carbon paper, black, lightweight		
Brooms, metal case Brooms, whisk Brush, blacking and dauber	332		(for typewriter use) Carbon paper, black, standard weight (for typewriter use)	425	
Brush, casting			weight (for typewriter use)	426	
Brush, clothes-scrubbing	400		Carbonate, sodium, granular (monohydrate crystals)	432	C317
Brush, cuspidor_			Car deta and thes. Axinitister	502	U353
Brush, deck-scrubbing Brush, fiber, garage	196		Carpets and rugs, Axminster Carpets and rugs, Wilton Carpets, velvet, plain	503 501	C353 C356 C354

[†] Printed, see p. (II) as to procurement.

Title	Federal specifi- cation No.	Bureau of Stand- ards Circu- lar No.	Title	Federal specifi- cation No.	Bureau of Stand- ards Circu- lar No.
Cars, steel, structural for	373a		Cloth, bird's-eye (diaper)	612	
Castings, antifriction metal, and ingots	536		Cloth, emery tCloth, mercerized cotton air-	388b	
Castings, brass, to be brazed Castings, brass, naval and com	286		plane, grade ACloth, shade	258b 555b	C364
mercial Castings, bronze Castings, bronze, aluminum Castings, bronze, manganese	272 172a		Cloth, tracing Cloth, tracing, printed	591 592	
Castings, bronze, aluminum Castings, bronze, manganese	369a 370		*Cloves (condiments)	260 -364	C267
Castings, copper-meker andy Castings, iron, gray	578 141		Coal-tar pitch for waterproofing	80	C157
Castings, iron, high-test gray (semisteel)	140		and damp proofing Coal-tar saturated rag felt for	83	C155
Castings, iron, malleable	378a 170		roofing and water proofing Cocks (plumbing fixtures for land	81	C156
Castings, steel	357		use) (price, 15 cents) *Cocoa	448 650b	C310
Catheters, rubber*Catsup, tomato (condiments)	222 364	C225	*Coconut, shredded (miscellane- ous provisions)	389	
*Cauliflower, trimmed (vege-	271		*Codfish, haddock or codfish and haddock (sea food)	365a	
tables) *Celery (vegetables) Cells and batteries, dry	271	C139	*Coffce Compound, rust-preventive,	161b	
Cement, asphalt plastic Cement, masonry	380 443		heavyConcrete pipe, plain	239 495	C200
Cement, plastic magnesia (mag-	1	0321	Concrete reinforcement bars	350a	
n esia-oxychloride) used as floor in g, bases, wainscots, etc	445	C323	Condenser tubes, and tubes for ferrule stock (Admiralty metal)	374 364	
Cement, Portland (price, 10 cents). Cement, rubber, for medical rub-		C33	*CondimentsConduit, rigid, enameled	311	
ber goods Chain and attachments, miscel-	. 223		Coolers, water Copper gaskets, asbestos, cor-	617	
laneous, standard	171a		rugated. Copper, ingot. Copper-nickel alloy castings	93 120	
Chairs, office Cheese, Cheddar, American, or	409		Copper-nickel alloy rous, bars,	1	
American Cheddar (dairy brod-	381a		shapes, plates, sheets, and strips- Copper, phosphor	585 118	
ucts) Cheese, hcad Cheesecloth, bleached	564a 253b	C365	Copper, phosphor————————————————————————————————————		
Cheesecloth remnants for wiping purposes			iron pipe size Copper rods, bars, shapes, plates,	287	
Cheesecloth for wiping purposes	252b 251a	C258 C255	sheets, and strips Copper, silicon	. 119	
*Cherries, canned Cherries, fresh (fruits and fruit	606a		Cord, sash, cotton braided	439 528	
*Chickens, roasting, fresh (meat	270		slats, and accessories	367b	C368
and meat food products) Chimneys, lamp, and glass lan-	267		Cork, compressed (cork board) Cork, ground, for insulating pur-	. 337	
tern globes	122 243a		Corn (feeds and forage)	338 25e	
Chinaware, vitrified Chisel bars, crow and pinch Chisels, gouges, and slicks, wood-	434		*Corn, green, sweet, ear and husk		
workers'Chloride, ammonium (sal am-	438		(vegetables) Corn, canned. *Cornmeal, white or yellow	627a 638a	
moniac)*Chocolate	446 651b		*Cornstarch	. 639a	
Chrome, ferro Chrome, ore, ground	139 125		Cot, folding, canvas	188 190	
Chrome yellow (lemon, medium	120		Cot, liberty, steel	224a	
and orange, dry, paste in oil, paste in japan	476	C331	Cots, rubber finger	. 288	
Citron, aried	. 054a		Cotton braided sash cord	. 528 . 528	
*Clams, fresh (sea food) Clay brick, common	365a 504	C345	Cotton bunting Cotton duck, numbered	611	C13
Clay brick, fire Clay, fire	. 268a 334a	C299 C298 C297	Cotton fabric for waterproofing, asphalt saturated woven	. 294	C28
Clay refractories, plastic fire Clay tile, hollow fireproofing, par-	. 335a		Cotton nilloweases bleached	305	C27
tition and furring	.1 508	C343 C342	Cotton rags, colored, for wiping machinery (sterilized) ————————————————————————————————————	_ 259a	C26
Clay tile, hollow load-bearing wall. Clay tile, hollow floorCloth, abrasive, aluminum oxide	506 387b	C344	Cotton rags, white, for wiping machinery (sterilized)	261a 447	C26 C32

[†] Printed, see p. (II) as to procurement.

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Title	Federa specification No.	- Stand-	Title	Feder specification No.	i- Stand
Cotton sheeting, bleached, wide_	303	C273	Durgtons mainta t.a.		
Cotton sheeting, unbleached, Cotton sheeting, brown, wide	301a	0213	Dusters, painters' flat Dusters, painters' round	5258	1
Cotton sheeting, brown, wide	302	C278	Eggulani, (Vegetables)	526a 271	i
	304	0074		3818	
	500	C274 C351			
Cotton twine Spine	616		filament incandescent. †Electric lamps, incandescent,	230	
Cotton twine seine	530		miniature, tungsten filament	618	
Cotton waste, colored	529 263a	C263	Effici y Cloth	3881	,
Cotton twine, seine	262a	C262	Enamel, red, water resisting Enameled ironware (plumbing	66	C14
Cottonseed mear (leeds and forage)	25c		fixtures for land use) (price, 15		
*Crab meat (sea food)	38b 365a		Cents/	448	C31
	640a		Eosin Ý (C. I. No. 768)	318	
"Uream, fresh (dairy products)	381a		Erasers, steel Ether, petroleum	539	
Crinkle bedspreads Crowbars, chisel and pinch	620		Extinguisher, fire, hand chemical	310	
	434 271		(carpon tetrachloride) 1 quart	124	
Cupudatu and locker equipment.	211		EAULIZUISHERS, Tre hand chamical		
	471		(soda-and-acid type) Extractors (laundry appliances)	213 551	
	368		Fabric, cotton, for waterproofing	991	
*Currants, dried *Curry (condiments)	634a 364		asphan saturated woven	294	C287
Cushion course, materials for, brick, stone block, or wood block pavement (sand, slag,	001		and bracket	404	
block payament (and			fasteners, paper, brass	491 377	
limestone screenings, etc.)	465		Fallcets (plumbing fixtures for	311	
Cushions, fing, cloth inserted	226b		land use) (price, 15 cents)	448	C310
Cusilions, ring riphhar	227b		Feeds and forage Felt, asphalt saturated rag, for	25e	
Cutters, grass	435		roofing and waterproofing	86	Cici
Cutters, pipe	437		roofing and waterproofing Felt, coal-tar saturated rag, for	00	C161
IIISECLICIDE IN IIIMIGATION)	355		rooming and waterprooming	81	C156
	381a		Felt, hair Felt, rag, for flashings, asphalt	158	
Dam, rubber	228	C218	saturated	295	C286
proofing and	85	C160	saturatedFerrome	139	
Damp proofing, coal-tar pitch for waterproofing and Denim, blue (shrunk)	00	C100	Ferromanganese Ferromolybdenum	138	
Waterproofing and	83	C155	r errosincon	143 145	
Denim, blue (unshrunk)	256c 257b		Ferrotitanium	144	
Denim, blue (unshrunk). Denim, brown (shrunk) Denim, brown (unshrunk).	254e		r errovanadium	135	
Denim, brown (unshrunk)	255b		Ferrule stock, tubes for, and con- denser tubes (Admiralty metal)	274	
	356		Filler, joint, petroleum asphalt for	374	
Desks, steel Desks, wood Diaper) bird's-eye cloth	477 358a		(squeegee or pouring method)		
Diaper) bird's-eye cloth	612		Filler, mineral, for sheet asphalt	277	
21311C3 and covers (Lanieware			or asphaltic concrete pavements		
silver-plated) Dishes (vitrified chinaware)	411 243a				
Jividers	400		dust, and doloinite dust)	463	
orains (plumbing fixtures for		1	Finger cots, rubber Fire extinguisher, hand chemical	224a	
land use) (price, 15 cents)	448	C310	(carbon tetrachloride), 1 quart	124	
in sets)	593				
rawing namer detail			(soda-and-acid type) Fire extinguishing liquid (carbon tetrachlorida basa)	213	
prawing paper. Drawing paper, printed. Drawing paper, ruled. Dredging sleeves.	595 .		tetrachloride base)*Fish fresh (see food)	36a	C134
rawing paper, printed			*Fish, fresh (sea food) Fittings and pipe, soil, cast-iron,	365a	C104
redging sleeves	40		Fittings and pipe, soil, cast-iron,		
prier, paint, liquidprill (unbleached)	20a _		coated and uncoated	3438	
prill (unbleached)	557	C367	Fittings, pipe, malleable iron	489	
rills, hand, with hollow handle	417		Fittings, pipe, malleable iron (threaded) (150 lb.)	535	
Ty cens and patteries	509 58a	C139	fixtures, blimbing (for land use)	1	
rying tumblers (laundry appli-	000	0100	(price, 15 cents) Flannel, canton Flax packing	448 613	C310
			Flax packing	101c	C363
ances)	551 _				
uck, cotton, numbered	551 53	C136	riasseed meal (leeds and forage)	25e	
uck, cotton, numbered_uck, light weight (Army duck, gray)	53		Flint paper.	25c -	
uck, cotton, numbereduck, light weight (Army duck, gray)uck. tent (special construction	53 159	C166	*Flour, buckwheat*Flour, graham(whole wheat mean)	25e 385b 317	
uck, cotton, numbered_uck, light weight (Army duck, gray)	53 159 160	C166 C167	Flint paper.	25c 385b 317 643a	

[†] Printed, see p. (II) as to procurement.

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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.)	25e		*Grapes (fruits and fruit products)	270	
Forage, feeds and Forks, dessert and dinner (table-			Gravel, broken stone, broken slag or, for bituminous surface treat-		
ware, silver-plated) *Fowl fricassee, fresh (meat and	411		ment Gravel for gravel roads	455 453	
meat food products) Frame, Gatch, adjustable spring	267		Grease (lubricants and liquid fuels) (price, 15 cents)	2d	(1)
bottom Frames, saw, hack	189		Gybsum, carcined	248	(1) C206
	479 634a		Gypsum plaster	247 285	C205 C210
*Fruits (fresh)	270 623		Gypsum wall board	284	C211
Fuel V, motor	623		Hair felt	415a 158	
methods for sampling and test- ing (price, 15 cents)	2d	(1)	*Hams, sweet pickled, smoked Hardware, builders' (price, 15	565a	
Furniture and cabinets, office,		()	Hardware, builders' (price, 15 cents)	336	C275
sectional, steel	408		Hatchets Hay (feeds and forage)	433 25e	
nets and trays, wood	359a		* Head cheese	564a 566a	
Fuses, nonrefillable, cartridge in- closed	56		*Hearts, beef. Heaters, water (plumbing fixtures for land use) (price, 15 cents)		
Fuses, plug, nonrenewable	346		Helmets, welders'	448 544	C310
closed	176		Helmets, sandblasting	546	
Garnet paper, waterproof	386a 583		Hinges (builders' hardware) (price, 15 cents)	336	C275
Gaskets and couplings, fire hose, cotton, rubber lined	38b	C114	Hominy feed, white and yellow (feeds and forage)	25e	
Gaskets, asbestos-copper, corru-	1	0111	Hominy grits	645a	
gated Gaskets, asbestos metallic cloth	93 97b	C242	*Hominy, lye, canned *Hops (miscellaneous provisions)	645a 389	
Gaskets, metallic encased	485	C336	Hose, air brake and signal, and	43	
†Gaskets, rubber packing and (molded, sheet, and strip)Gasoline. (See also Fuel V,	111b		Hose, chemical	47	
Gasoline. (See also Fuel V, motor.)			Hose, divers'Hose, fire, cotton, rubber lined	44b	C289
Gasoline (lubricants and liquid	0.1	40	(couplings and gaskets)	38b	C114
Gasoline, motor, United States	2d	(1)	Hose, fire, unlined linen	527 40b	C358 C290
Government Gauze, bandage, compressed	622a 298		Hose, gasoline, rubber metal †Hose, oil suction and discharge	136a 63e	C269
Gauze, plain Gauze, roller bandage, plain, as-	289		Hose, pneumatic	41b	C307
Gauze, roller bandage, plain, as-	299		Hose, spray Hose, steam	45 49b	C268
General specification for—			Hose, tender (corrugated)	46c	C288
Metals Paper	339a 394		†Hose, water, braided †Hose, water suetion (smooth	588	
Rubber goods (price, 10 cents)- Textile materials	59a 345a	C232	tHose, water and wash deck	50b 48c	
	473		Hosiery, sizes, measuring	92	
German silver, nickel silver, rods, bars, shapes, plates, sheets,			Hydrants, wall (plumbing fix- tures for land use) (price, 15		
and strips. *Ginger (condiments)	468 364		cents)	448 216a	C310
Glass cutters	435		Ice bags, rubber Illustrating board	217	C227
Glass, flat, for glazing purposes Glass lantern globes and lamp	123	C164	Illustrating board Ingot, aluminum	590 134	
chimneys	122		Ingot copper	120	
Globes, glass, lantern, and lamp	121a		Ingots, aluminum bronze (for re- melting)	173a	
Gloves, rubber, for electrical	122		Ingots, antifriction metal, and castings	536	
workers (for use in connection			Ingots, bronze (for remelting)	290a	
with apparatus or circuits not exceeding 3,000 volts to ground).	312	C271	Ingots, manganese bronze (for remelting)	* 89	
Gloves, rubber, surgeons'	229	C217	Ink, black waterproof drawing	265a	C196
Goggles for protection against fly- ing particles and chips	541		Ink, marking, indelible, for fabrics. Ink, record and copying	266a 163	C197 C182
Goggles, rubber frame Goggles, welders	542 543		Ink. red	165 166	C184 C185
Gouges, slicks, and chisels, wood-			Ink, stamp-pad Ink, writing	164	C183
workers' Granite, block for, recut granite,	438		Insect powder (pyrethrum pow-	353	
and durax granite pavements • Grapefruit (fruits and fruit prod-	510		(Insecticide in fumigation) so- dium cyanide.	355	
ucts)	270		(Insecticide) sodium fluoride	354	

[†] Printed, see p. (II) as to procurement.

¹ Bureau of Mines Technical Paper No. 323B.

Title	Federal specifi- cation No.	Bureau of Stand- ards Circu- lar No.	Title	Federal specifi- cation No.	Bureau of Stand- ards Circu- lar No.
Insulation, 30 per cent rubber,			Ligatures, catgut, boilable (sur-	0.57	
for wire and cable for general purposes	587		gical catgut suture material) Lime, hydrated, for structural	357	
Instruments, drawing (first grade,	F02		purposes	249	C204
in sets) Iron bar, wrought, refined	593 391		Lime, quick, for structural pur- poses	250	C20
Iron boiler tubes, lapwelded,	349		*Limes (fruits and fruit products)_	270	
charcoal Iron, cast, pipe and fittings, soil,	349		Linen fire hose, unlined Linoleum, battleship	527 209	C358
coated and uncoated	343a		Linoleum, plain, inlaid, and	210	
Iron, cast, pipe fittings (threaded)_ Iron castings, gray	489 141		printed Linsecd cake and meal (feeds and	210	C19
Iron castings, high test gray (semi-	140		forage) Liquid, fire extinguishing (car-	25c	
steel) Iron castings, malleable	378a		bon tetrachloride base)	36a	C13
Iron, pig, foundry Iron pipe, centrifugally cast, water_	126a 537		*Liver, beef	568a	
Iron, pipe, wrought, uncoated			and steel	471	
and zinc coated (galvanized) Iron pipe fittings, mallcable	242a		Locks (builders' hardware) (price, 15 cents)	336	C27
(threaded) (150 lb.)	535		Lubricants and liquid fuels, and	000	0211
Iron and steel welding wire Iron unions, or steel, malleable	$\frac{174}{393}$		methods for sampling and test- ing (price, 15 cents)	2d	(1)
Iron unions, 300-pound, malle-			Lumber (grading and inspection		
able, or steel Ironers (laundry appliances)	580 551		rules) Lumber, softwood, yard and fac-	24	
Ironing boards (laundry appli-			torv	533a	
ances) Ironware, enameled (plumbing	551		*Luncheon meat. Lye, soda, caustic (for cleaning	569a	
fixtures for land use) (price, 15			purposes)	430	C31
cents) Jacks	448 481	C310	*Macaroni, spaghetti, and vermi- celli	648a	
Jams Jeans, bleached	635a		*Mace (condiments)	364	
Jeans, bleached *Kale (vegetables)	614 271		Machines, washing (laundry appliances)	551	
Kerosene (lubricants and liquid			pliances) *Mackerel, salted (sea food)	365a	
fuels) (price, 15 cents)* Kidneys, beef	2d 567a	(1)	Magnesia asbestos plaster Magnesia cement, plastic (mag-	211	
Kniie. (See Erasers, steel.)			nesia-oxychloride) used as floor-	445	Goo
Knives, drawing Knives, shoe	488 442		ing, bases, wainscots, etc	445	C32
Knives, tea, dessert, and dinner			and blocks	212	
(tableware, silver-plated) Ladles, plumbers	411 474		Manganese bronze castings Manganese bronze ingots (for	370	
Lamps, electric, incandescent,			remelting)	89	
large, tungsten filament †Lamps, electric, incandescent,	23c		Manganese bronze rods, bars, shapes, and plates	552	
miniature, tungsten filament	618		Manganese, ferro	138	
*Lard substitutes	603a		Manganese ore Manholes (plumbing fixtures for	142	
(price, 15 cents)	336	C275	land use) (price, 15 cents)	448	C31
Lath. (See Metal bases for plaster and stucco construction.)		K	Masks, babbitting Matches, safety (full size in boxes)_	545 428	C318
Laundry appliances Laundry trays (porcelain, slate,	551		Matting, rubber for use around	382	C30
and soapstone) (plumbing fix-			electrical apparatus or circuits		
tures) (price, 15 cents)Lavatories (plumbing fixtures for	448	C310	not exceeding 3,000 volts to ground	414	C31:
land use) (price, 15 cents)	448	C310	Mattress and pillow ticking	0.4	
Lead, pig Lead, rcd, dry and paste	117 11	C90	Meal, alfalfa, corn (feeds and forage)	25c	
Lead, sheet	308		Measuring devices, liquid, retail		
Lead-tin solder Lead, white, basic carbonate, dry	313		*Meat and meat food products	362 267	
and paste. Lead, white, basic sulphate, dry	5	C84	*Meat, luncheon		
Lead, white, basic sulphate, dry and paste	6	C85	Metal, antifriction, ingots and castings	536	
Leather, bag	482	C338	†Metal bases for plaster and		
Leather belting Leather, hydraulic packing (vege-	37	C148	stucco construction Metals, general specification for	553 339a	
table tanned)	496	C340	Metol (monomethyl-para amino-		
Leather, lace †Leather, rigging	184 483a	C213	phenol sulphate) Middlings, standard and flour	421	
Leather, sole	241	C198	(feeds and forage)	25e	
Leather upholstery	183	C212	*Milk, fresh, evaporated, dried, and malted, condensed (dairy		
*Lemons (fruits and fruit prod-					

[†] Printed, see p. (II) as to procurement.

¹ Bureau of Mines Technical Paper No. 323B.

Title	Federal specifi- cation No.	Bureau of Stand- ards Circu- lar No.	Title	Federal specifi- cation No.	Bureau of Stand- ards Circu- lar No.
*Mincemeat (miscellaneous provisions). Mineral filler for sheet asphalt or asphaltic concrete payments	389		Packing, metallic, flexible Packing, metallic, plastic Packing, semimetallic Packing, metallic, solid (floating	102 106 107a	
asphaltic concrete pavements (Portland cement, limestone dust, and dolomite dust)	463		ring type) Packing, rubber, cloth insertion	108 110a	C236
Molybdenum, ferro Mosquito netting (unbleached bobbinet) Mucilage	143		Packing, rubber, wire insertion Packing, tucks	112a 113a	C234 C233
bobbinet)	540a 554a		†Packings, rubber, and gaskets	111b	
*Mustard, ground (condiments)	364		(molded, sheet, and strip) Padlocks	413a	
*Mutton Nail pullers	570a 418		Pads and stands, calendar Pads, surgical operating	366a 230b	
Nails, spikes, tacks, and staples Netting, mosquito (unbleached	534		Paint, black, semipaste and ready	14b	C94
bobbinet)	540a		Paint drier, liquid	20a	
Nickel, copper, alloy castings Nickel, copper, alloy, rods, bars, shapes, plates, sheets, and	578		mixed	15	C97
stripsNickel, for remelting	585 371		Paint, lithopone, interior, white and light tints, flat or eggshell finish (semipaste and ready	243	Gara
Nickel silver, rods, bars, shapes, plates, sheets, and strips (Ger-	4		Paint, lithopone, gloss interior,	21b	C111
man silver) Nickel steel, structural	468 372		Paint, lithopone, gloss interior, white and light tints Paint, olive drab (semipaste and	67	C147
Nutmeg (condiments) Nuts (miscellaneous provisions)	364 389		ready mixed)	137a	C165
Nuts, bolts, and machine screws_ *Oatmeal and rolled oats Oats (feeds and forage)	548 317a 25c	C91	zinc (semipaste and ready mixed) Paint, white, and tinted paints	278	C215
Ocher, dry and pasteOil, cottonseed (edible grade)Oil, linseed, boiledOil, linseed, raw	12 73 475b 4b	C362 C361	paste and ready mixed Paints, composite vehicle for thinning semipaste, when the	10b	C89
Oil, linseed, raw Oil, olive (edible grade) Oil, road, for hot application	77		use of straight linseed oil is not justified	17	C102
Oil, road, for hot application (type OH-1-25)	275 498	C357	Paints, iron oxide and iron hydrox-	13b	C93
Oilcloth, table, white Oils, burning, fuel, lubricating, and mineral (lubricants and	490	Casi	Paints, thinning, volatile min-		
*Oleomargarine (dairy products)_ *Onions, green, staple (vegetables)	2d 381a 271	(1)	eral spirits for Paper. (See also Paper Specifications of Joint Committee on Printing issued by Government Printing Office.)	16	C98
*Oranges (fruits and fruit prod- ucts)	270		Paper, abrasive, artificial, water- proof	582	
Ore, chrome, ground Ore, manganese	125 142		Paper, blue print, No. 1 grade (sensitized and unsensitized)	179	
Oxide, leaded zinc, dry and paste Oxide, zinc, dry and paste Oxychloride, magnesia, plastic	8	C88 C87	Paper, blue print, No. 2 grade (sensitized and unsensitized) ————————————————————————————————————	180	
magnesia cement, used as flooring, bases, wainscots, etc.	445	C323	Paper, brown process (sensitized	181	
*Oysters, fresh (sea food) Packing, asbestos high pressure	365a		and unsensitized) Paper, carbon, black, light weight	182a	
Packing, asbestos metallic cloth	103a	C238	(for typewriter use) Paper, carbon, black, standard	425	
Packing, asbestos sheet, com-	94b	C243	weight (for typewriter use)	426 594	
pressed	96c		Paper, detail drawing Paper, drawing	595	
Packing, asbestos valve stem Packing, asbestos wick and rope	95 487	C334	Paper, drawing, printed Paper, drawing, ruled	596 597	
Packing, diaphragm Packing, fabric condenser tube	98a 99	C240	Paper, drawing, ruled Paper, fasteners, brass Paper, flint	377 385b	
Packing, fiber, for lubricating and			Paper, garnet	386a	
fuel oil	100 101c	C363	Paper, garnet, waterproof Paper, general specification for	583 394	
Packing, hard fiber sheet	486	C335	Paper, general specification for Paper, tracing	598	
Packing, hydraulic, leather (vege-			*Parsley (vegetables) *Parsnips (vegetables) Paste, office and library	271 271	
table tanned) Packing, low-pressure spiral	496	C340	Paste, office and library Paste, polishing	412 340	
- de	104a	C237	Pavement construction, asphalt	0 -0	

[†] Printed, see p. (II) as to procurement.

¹ Bureau of Mines Technical Paper No. 323B.

Title	Federal specifi- cation	Bureau of Stand- ards	Title	Federal specifi- cation	Bureau of Stand- ards
	No.	Circu- lar No.		No.	Circu- lar No.
Pavements, block for granite, recut granite, and durax granite_	510		Plumbing fixtures (for land use) (price, 15 cents)	448	G210
Peaches, canned	607a		*Plums (fruits and fruit products)	270	C310
*Peaches, iresh, and evaporated			Polish, liquid metal	341	
(fruits and fruit products)	270		Polish, silver	390	
*Pears, canned *Pears, fresh, evaporated (fruits and fruit products)	608a 270		Polishing paste Porcelain ware (plumbing fix- tures for land use) (price, 15	340	
*Peas, canned	628a			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-	211	
Percaie	556		ware, silver-plated)	411	
Petroleum asphalt for joint filler			Powder, insect (pyrethrum pow-	0.80	
(squeegee or pouring method) type PAF-1-25	277		Powder, scouring, for floors	353 34a	C370
Petroleum ether	310		Powder, soap	28	C125
Phosphate, trisodium, technical			*Powders, baking, tartaric acid		
(phosphate cleaner)	558	C369	(miscellaneous provisions)	389	
Phosphor copper	532 118		Preservatives, wood, and processes of treatment	395	
Phosphor copper Phosphor tin Photography, Sodium sulphite, anhydrous, for *Pickles (condiments)	116		Preserves	270	
Photography, Sodium sulphite,			*Provisions, miscellaneous	389	
anhydrous, for	586		Prunes, canned	610a	
*Pickles (condiments) Pillowcases, cotton, bleached	364 305	C277	*Prunes, evaporated, dried	634a 418	
Pillowcases, rubber	231a		Pullers, nail. Pulleys (builders' hardware) (price, 15 cents). *Pumpkin, canned.	110	
Pillows, air, rubber	232b		(price, 15 cents)	336	C275
Pillow ticking and mattress	615a		*Pumpkin, canned	629a	
Pinch bars, crow and chisel*Pineapple, canned	434 609a		Pumpkin, fresh Putty	271 283	C216
*Pineapples, fresh (fruits and fruit	0004		Pyrethrum powder (insect pow-	200	0.220
products)	270		der)	353	
Pipe, brass, seamless, iron pipe size, standard and extra strong	2.100		Quicklime for structural purposes_ Radio receiving electron tubes	250 410	C201
Pipe, soil, east-iron, and fittings,	342a		*Radishes, fresh (vegetables)	271	
coated and uncoated	343a		Rag felt for asphalt saturated roof-		~
Pipe, concrete, plain	495		ing and waterproofing Rag felt for flashings, asphalt	86	C161
Pipe, copper, seamless, and tub- ing, copper, seamless, standard			saturated	295	C286
iron pipe size	287		Rags, colored, cotton, for wiping	-00	
Pipe covering and blocks, mag-			machinery (sterilized)	259a	C261
nesia molded Pipe cutters	212 437		Rags, white cotton, for wiping machinery (sterilized)	261a	C264
Pipe fittings, cast-iron (threaded)	489		*Raisins, dried	6343	
Pipe fittings, malleable iron (threaded) (150 lb.)			Receptacles, waste paper, fiber Red lead, dry and paste	538	
(inreaded) (150 lb.)	535		Red lead, dry and paste	11	C90 C297
Pipe threads Pipe, water, centrifugally cast	238		Refractories, plastic fire clay Reinforcement bars, concrete	335a 350a	C 291
iron	537		*Rhubarb, fresh (vegetables)	271	
Pipe, welded steel (black and gal-			Ribbons, computing and record-	100	C100
vanized) Pipe, wrought-iron, uncoated and	162a		ing machine Ribbons, hectograph	169a 168a	C188 C187
zinc coated	242a		Ribbons, typewriter	167a	C186
*Pitchers, sirup (glass tableware)_	121a		*Rice	647a	
Pitchers, water, cream and ice.	411		Ring cushions, cloth inserted	226b	
(tableware, silver-plated) Plaster board, gypsum	411 285	C210	Ring cushions, rubber Rings, rubber jar	227b 51	
Plaster, gypsum	247	C205	Rivets (bolts, nuts, and machine	01	
Plaster, gypsum Plaster, magnesia asbestos	211		screws)	548	
Plastering trowels, coment, brick	EC.1		Road oil for hot application (type	975	
and pointing Plates, copper. bars, rods, shapes,	584		OH-1-25 Road and pavement construction,	275	
sheets, and strips	467		asphalt for use in	276a	
Plates, copper nickel alloy, rods,			Road surface materials, for top-	480	
bars, shapes, sheets, and strips	585		soil or sand clay	452	
Plates, manganese bronze, rods, bars, and shapes	552		Rods, copper, bars, shapes, plates, sheets, and strips	467	
bars, and shapes. Plates, nickel silver, rods, bars,	302		Rods, copper nicker anoy, bars,	20.	
snapes, sneets, and strips (Ger-			plates, shapes, sheets, and		
	468		strips	585	
man silver) Plates, steel, marine boilcr	549		Rods, manganese bronze, bars,		1

Title	Federal specifi- cation No.	Bureau of Stand- ards Circu- lar No.	Title	Federal specifi- cation No.	Bureau of Stand- ards Circu- lar No.
Rods, nickel silver, bars, shapes, plates, sheets, and strips (Ger- man silver)	468		Rubber gloves, surgeons' Rubber goods, general specifica- tion for (methods of physical	229	C217
Rods, welding, nonferrous, for gas welding Rollers, window shade, slats, cords and accessories	269a 367b	C368	tests and chemical analysis) (price, 10 cents) Rubber hose, metal, gasoline Rubber hot-water bottles	59a 136a 221 b	C232 C269
Roof coating, asphalt fibrous Roofing, asphalt for mineral sur-	424		Rubber ice bags Rubber insulation, 30 per cent,	217	C227
faced Roofing, asphalt prepared Roofing, asphalt primer for, and	84 214	C159 C192	for wire and cable for general purposes Rubber jar rings Rubber-lined fire hose, cotton	587 51	
waterproofing Roofing, asphalt saturated rag felt for, and waterproofing	87 86	C162 C161	Rubber-lined lire hose, cotton (couplings and gaskets) Rubber matting Rubber matting, for use around	38b 382	C114 C306
Roofing, asphalt for unsurfaced built up	88 80	C168 C157	not exceeding 3,000 volts to		
Roofing, coal-tar saturated rag felt for, and waterpreofing Roofing, construction of built up,	81	C156	ground	414 110a 112a	C312 C236 C234
type 3ACS	148 151	C172 C175	†Rubber packings and gaskets (molded, sheet, and strip) Rubber pillowcases	111b 231a	
Roofing, construction of built up, type 4ACS Roofing, construction of built up,	149	C173	Rubber pillows, air Rubber ring cushions Rubber sheeting	232b 227b 233b	
type 4AWS	146 152	C170 C176	Rubber stoppers Rubber syringe, fountain Rubber tape, insulating	383 235b 292	C308 C230
Roofing, construction of built up, type 4TWS Roofing, construction of built up,	154	C178	Rubber tips for crutches. Rubber tires, solid and pneumatic, and inner tubes.	225 3e	C223 C115
type 5ACS_Roofing, construction of built up, type 5AWS	150 147	C174 C171	†Rubber tubing	39c 114a 502	C244 C353
Roofing, construction of built up, type 5TCS_ Roofing, construction of built up,	153	C177	Ruiers, desk	503 360 419	C356
type 5TWS Roofing, installation of metal flashings with built-up bitu-	155	C179	Rules Rustpreventive compound, heavy Safes, burglar-resisting	239 363	C200
minous	156	C180	Safes and cabinets, insulated *Sage (condiments)	60a 364	
Roofing, prepared, asbestos and	157	C181	*Salmon, canned (sea food)	446 365a	
asphalt, slate surfaced Roofing and shingles, asphalt prepared, slate surfaced Poofing surfacing materials for	423 296	C285	*Salt (condiments) Sand for cement grout filler, brick and stone block pavements	364 461	
Roofing, surfacing materials for bituminous built up	82 447	C158 C326	Sand for cement mortar bed for brick, stone block, or wood block pavements	462	
†Rope, manila_ Rope, wire (price, 15 cents) Rubber aprons, surgeons'	61b 297 215b	C208	Sand-lime brick, common——————————————————————————————————	505 460	C347
Rubber bandages Rubber bands Rubber boots, hip	219 64a 492	C219 C284 C349 C350 C348	Sandblasting helmets *Sardines, canned (sea food)	546 365a	
Rubber boots, short, heavy Rubber boots, short, light Rubber catheters Rubber cement for medical rub-	494 493 222	C350 C348 C225	Sash cord, cotton braided* *Sauce, apple* *Sauce, chili and Worcestershire type (condiments)	528 621a 364	
Rubber-covered wires and cables	223 65		*Sauerkraut, canned *Sausage, bologna style *Sausage, frankfurter style	630a 575a 574b	
for ordinary purposes	228 224a	C218	*Sausage, Pork*Sausage, Vienna style, canned	573a 576b	1
ers (for use in connection with apparatus or circuits not ex-	010	COT	Saw blades, back Saw frames, back Saw, band, sets	415a 479 440	
ceeding 3,000 volts to ground)	312	C271	Saws	480	

[†] Printed, see p. (II) as to procurement.

Title	Federa specifi- cation No.	- Stand-	Title	Feder specification No.	i- Stand-
Scales, railroad-track Scales, weighing, general specifi- cation for *Scallions, green (vegetables)	314 473 271		Slag, broken, and broken stone for bituminous concrete base or sur- face course	458	
Scouring powder for floors	361a 34a	C370	bituminous macadam base or surface course	457	
Scrapers, crumb (tableware, silver-plated) Screws, wood	411 52a	C140	Slag, broken, broken stone, or gravel for bituminous surface treatment	455	
Screws, machine, bolts and nuts_ Scribers, machinists'_ *Sea food (fresh, salt, smoked, and	548 441		Slag, broken and broken stone for waterbound base or wearing course		
canned) Seams, stitches, and stitching (price, 20 cents)	365a		Slate (plumbing fixtures for land use) (price, 15 cents)	456 448	C310
Shade cloth	384 440 555b	C283	Slate-surfaced asphalt and asbestos prepared roofing Slate-surfaced, asphalt prepared	423	
Shades, window, rollers, slats, cords, and accessories *Shakers, salt and pepper (glass	367b	C368	Slats, window shades cords and	296	C285
Shakers, salt and penner (table-	121a		accessories Sleeves, dredging Slicks, gouges, and chisels, wood-	367b 42	C368
Shapers, collar (laundry appli-	411 551		(Snips), tinners' hand shears	438 451	
Shapes, copper, bars, rods, plates, sheets, and strips	467		Soap, chip	30 31 33a	C127 C128 C130
Shapes, copper nickel alloy plates, sheets, strips, rods, and bars—Shapes, manganese bronze, rods,	585		Soap, grit, cake Soap, grit, hand Soap, laundry, ordinary	$\frac{35}{32}$	C132 C129
bars, and platesShapes, nickel silver, rods, bars, plates, sheets, and strips (Ger-	552		Soap, liquid Soap, liquid (for laundry use) Soap powder	27 246 28	C124 C193
man silver) Shaves, spoke	468 450		Soap, powdered (for laundry use) Soap, salt-water Soap, toilet, milled	245 29	C125 C195 C126
Shears and seissors, office			use)	244 26	C194 C123
Sheeting, cotton, unbleached Sheeting, cotton, brown, wide	301a 302	C273	Soapstones (plumbing fixtures for land use) (price, 15 cents)	448 429	C310 C314
Sheets, copper, bars, rods, shapes,	407		*Soda, baking (sodium bicarbo- nate) (miscellaneous provisions)	389	
Sheet, copper nickel alloy rods, bars, shapes, plates, and strips. Sheets, cotton, bleached (medium	-0-		Soda, caustic (lye), for cleaning purposesSoda, laundry (washing soda)	430 431	C315 C316
and high-count sheeting)	304	C274	(monohydrate crystals)	432	C317
shapes, plates, and strips (German silver) Shellac, flake orange	468		Sodium fluoride (insecticide)	355 354	
Shields, welders' hand	375 376 547	C302 C303	Sodium sulphite, anhydrous, for photography Solder, silver	00=	
Shingles and roofing, asphalt prepared, slate-surfaced Shorts, brown and gray (feeds and	296	C285	Solder, silver	306 313	
forage)Shower fixtures (plumbing fix- tures for land use) (price, 15	25c _		Soldering coppers*Spaghetti, macaroni, vermicelli_ Spelter solder (for brazing)	648a .	
cents) (price, 15 cents)	448	C310	*Spices, ground (condiments)	91a 364	
Silver, nickel, rods, bars, shapes, plates, sheets, and strips (Ger-	1 4 5		Spiegeleisen Spikes, tacks, staples, and nails *Spinach, canned Spinach, fresh	534 631a	
man silver) Silver solder Sinks (plumbing fixtures for land	468 307		table (tableware, silver-plated). Spring bottom, adjustable (Gatch	(11	
use) (price, 15 cents)	448 315b	C310	Squares, T	189 602	
lizes of hosiery, measuring lag, broken, and broken stone for binder course, sheet asphalt	00		bard (vegetables) Stands, tables, and wood	PO 4	
† Printed, see p. (II) as to procurem	459		Staples, nails, spikes, and tacks Staybolt, steel, boiler		

[†] Printed, see p. (II) as to procurement.

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			Tape, friction	291	C22
bars for reforging, carbon and alloy	316		Tape, rubber-insulating Tapioca	292 644a	C23
alloy Steel castings			Tar, coal, pitch for roofing	80	C15
Steel castingsSteel plates, marine boilerSteel (semi), high-test gray iron			and damp proofing	83	C15
castings Steel, staybolt, boiler	140		Tar, coal, saturated rag felt for	01	O.F.
Steel, staybolt, bollerSteel, structural, for bridges	550 351a		roofing and waterproofing Tar, refined, for construction	81 282	C15
Steel, structural, for bridges Steel, structural, for buildings	352a		Tar, refined, for hot application		
Steel, structural, for cars	373a 372		(type TH-1-25) Tar for use in repair work	280 281	
Steel, structural nickel Steel, structural, for ships other	312		Tars for cold application	279	
than naval vessels	469		*Tea	649b	
Steel tubes, seamless, for aircraft	490		Tent duck (special construction for bleaching or dyeing, gray)	160	C16
purposesSteel unions, malleable iron or Steel unions, 300 pound malleable	393		†Textile materials, general specifi- cation for (methods of physical	100	010
iron or	580		and chemical tests)	345a	
Steel welding wire, iron and	174		Thermometers, clinical Thermometers, industrial	309	
Sterilizers, dressing containers and stands, portable lockers for			Threads, pipe	472a 238	
use in conjunction with steri-			I IIIIIIDtacks	600	
lizers, electric heaters, and	68a		Thyme (condiments)	364 615a	
steam sterilizing apparatus Stitches, seams, and stitching (price, 20 cents)			†Ticking, mattress and pillow Tile, clay, hollow, floor	506	C34
(price, 20 cents)	384	C283	Tile, clay, hollow, load-bearing wall	507	C34
Stone, broken, broken slag for bituminous concrete base or	450		Tile, clay, hollow, fireproofing,	F00	Gn.
surface course Stone, broken, and broken slag	458		partition and furring Tin-lead solder	508 313	C34
for bituminous macadam base			Tin-lead solder Tin, phosphor	116	
or surface course	457		Tin, pig	90	C22
Stone, broken, broken slag, or gravel for bituminous surface			Tips for crutches, rubber †Tires, bicycle, single tube and	225	C22
treatment	455		clincher	581	
Stone, broken, and broken slag for binder course, sheet asphalt			Tires, pneumatic, solid rubber and inner tubes	3e	C11
pavement	459		Titanium, ferro	144	
Stone, broken, and broken slag for waterbound base or wearing			Titanium, ferro Titanium-zinc paint, outside white (semipaste and ready		
course	456	C308	mixed) *Tomatoes, canned	278 632a	C21
Stoppers, rubber Straightedges	383 599	C308	Tomatoes, fresh	271	
Straw (feeds and forage)	25c		*Tongue, beef, canned	562a	
Strips, copper, rods, bars, shapes, sheets, and plates	467		Toothbrush Towels, crash Towels, glass, cotton	202 633	
Strips, copper nickel alloy rods.	101		Towels, glass, cotton	616	
bars, shapes, plates, and sheets	585		Trowels, huck, office (with woven	400-	
bars, shapes, plates, and sheets. Strips, nickel silver, bars, rods, shapes, plates, and sheets (Ger-			name) Tracing cloth	422a 591	
man silver)	468		Tracing cloth, printed Tracing paper Track (tablewers silver plated)	592	
Studs (machine screws, bolts, and nuts)	548		Tracing paperTrays (tableware, silver-plated)	598 411	
*Sugar	579b		Trays, office sectional furniture,	711	
*Sugar(Sulphate, mono-methyl-para-	401		cabinets, wood	359a	
aminophenol) metol	421		Triangles Trisodium phosphate, technical	601	
photographySweep, floor, hair	586		(phosphate cleaner)	558	C36
Switches knife	400a 175		Trowels, plastering, cement, brick, and pointing.	584	
Switches, knife Switches, snap	62		T-squares	602	
Syringe, cloth-inserted fountain	234 b		Tube, colon	236	C22
Syringe, rubber fountain Syrup. (See Sirup.)	235b		Tube, stomach or lavage	237	C22
Tablecloths, cotton	. 500	C351	Tubes, boiler, iron, lapwelded		
Tables and stands wood	478 121a		charcoal	349	
Tableware, glass———————————————————————————————————	411		Tubes, boiler, lapwelded and	347	
	534		Tubes, condenser, and tubes for	071	
"Tangerines (fruits and fruit	270		ferrule stock (Admiralty metal)_	374	
Tanks, hot-water (plumbing			Tubes, inner, pneumatic and solid tires, rubber	3e	C11
fixtures for land use) (price, 15			Some thes, tubbet	OC.	CI

[†] Printed, see p. (II) as to procurement.

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. Tubing, brass. seamless. Tubing, copper, seamless, and	490 427a		Water heaters (plumbing fixtures for land use) (price, 15 cents) *Watermelons (fruits and fruit products)	448 270	C310
pipe, copper, seamless, stand- ard iron pipe size	287		Waterproofing, asphalt for, and damp proofing	85	C160
Tubing, flexible, nonmetallic †Tubing, rubber Tubs, stationary (laundry appli-	57 39c		Waterproofing, asphalt primer for roofing and Waterproofing, asphalt saturated	87	C162
ances) *Tumbler (glass tableware)	551 121a		rag felt for roofing and	86	C161
*Tuna fish, canned (sea food) Tureens, soup (tableware, silver-	365a		woven cotton fabric for Waterproofing, coal-tar pitch for	294	C287
plated) *Turkeys, fresh, chilled and frozen (meat and meat-food	411		and damp proofing Waterproofing, coal-tar saturated rag felt for roofing and	83 81	C155 C156
products)*Turnips, white and yellow (vege-	267		Waterproofing material, integral (for use with Portland cement		
tables) Turpentine (gum spirits of tur-	271		mortar or concrete) Wax, sealing	444a 420 543	C360
pentine and steam distilled wood turpentine) Twine, cotton	7b 530	C86	Welders' goggles Welders' hand shields Welders' helmets	547 544	
Twine, cotton seine Unions, malleable iron or steel	529 393		Welding rods, nonferrous for gas welding	269a	-
Unions, 300-pound, malleable iron or steel Urinals (plumbing fixtures for	580		Welding wire, iron and steel	174 25e	
land use) (price, 15 cents) Valves (plumbing fixtures for	448	C310	Window shades, rollers, slats, cords, and accessories	367b	C368
land use) (price, 15 cents)———Valves, rubber	448 114a	C310 C244	Wire rope (price, 15 cents)	297 532	C208
Vanadium. ferro Varnish, asphalt Varnish, interior	135 19 22	C104 C117	Wire, welding, iron and steel Wire and cable, 30 per cent rubber insulation, for general purposes.	174 587	
Varnish, shellac Varnish, spar, water resisting	376 18b	C303 C103	Wires and cables, rubber covered, for ordinary purposes	65	
*Veal*Vegetables (fresh, and dried)	572a 271		Wood preservatives, and proc- esses of treatment	395	
*Vermicelli spaghetti, macaroni *Vinegars (condiments) Vitrified chinaware	648a 364 243a		†Wool bunting †Wool waste, colored *Yeast (miscellaneous provisions)_	497a 264a 389	C260
Waiters (tableware, silver-plated) Wall board, gypsum Waste, cotton, colored Waste, cotton, white	243a 411 284 263a 262a	C211 C263 C262	Zinc oxide, dry and paste	8 9	C87 C88
Waste, wool, colored Water-closets (plumbing fixtures	264a	C260	mixed) Zinc plates, sheets, and strips	278 531	C215
for land use) (price, 15 cents) Water coolers	448 617	C310	Zinc, slab (spelter)	91a	

[†] Printed, see p. (II) as to procurement.

NUMERICAL LIST OF SPECIFICATIONS

To dono!	Bureau		Fadanal	Bureau	
Federal specifi-	of Stand-	mus	Federal specifi-	of Stand-	m
cation	ards	Title	cation	ards	Title
No.	Circu-		No.	Circu-	
	lar No.	-		lar No.	
1a	C33	Cement, Portland. (Price, 10	44b	C289	Divers' hose.
		cents.)	45		Spray hose. Hose, tender (corrugated).
2 d	(1)	Lubricants and liquid fuels and methods for sampling and test-	46c 47	C288	Hose, tender (corrugated). Chemical hose.
		ing. (Price, 15 cents.)	48c		Hose, water and wash deck.
3c	C115	Tires, pneumatic and solid rub-	49b	C268	Steam hose.
4b	C361	ber, and inner tubes.	50b		†Hose, water suction (smooth
5	C84	Oil, linseed, raw. Basic carbonate white lead, dry	51		bore). Rubber jar rings.
		and paste.	52a	C140	Screws, wood.
6	C85	Basic sulphate white lead, dry	53	C136	Numbered cotton duck.
7b	C86	and paste. Turpentine (gum spirits of tur-	54 55		Asbestos millboard. Cutout bases.
.~	000	pentine and steam-distilled	56		Nonrefillable cartridge inclosed
0	005	wood turpentine).			fuses.
8	C87 C88	Zinc oxide, dry and paste. Leaded zinc oxide, dry and paste.	57 58a	C139	Flexible nonmetallic tubing. Cells and batteries, dry.
10b	C89	Paint, white, and tinted paints	59a	C232	General specifications for rubber
		made on a white base, semi-			goods (methods of physical
11	C90	paste and ready mixed. Red lead, dry and paste.			tests and chemical analysis). (Price, 10 cents.)
12	C91	Ocher, dry and paste.	60a		Safes and cabinets, insulated.
13b	C93	Paints, iron oxide and iron hy-	61b		†Rope, manila.
14b	C94	droxide. Paint, black, semipaste and	62 63c		Snap switches. †Hose, oil suction and discharge.
140	054	ready mixed.	64a	C284	Rubber bands.
15	C97	Green paint, semipaste and ready	65		Rubber-covered wires and cables
16	C98	Mixed.	00	0146	for ordinary purposes.
10	090	Volatile mineral spirits for thin- ning paints.	66 67	C146 C147	Water-resisting red enamel. Gloss interior lithopone paint,
17	C102	Composite vehicle for thinning	0.	0111	white and light tints.
		semipaste paints when the use	68a		Sterilizers, dressing containers
		of straight linseed oil is not justified.			and stands, portable lockers for use in conjunction with
18b	C103	Varnish, spar, water resisting.			sterilizers, electric heaters, and
19 20a	C104	Asphalt varnish.	00		steam sterilizing apparatus.
20a 21b	C111	Paint, drier, liquid. Paint, interior lithopone, white	69 70		Canceled Apr. 8, 1926, Do.
		and light tints, flat or eggshell	71		Do.
		finish (semipaste and ready	72 73		Do.
22	C117	mixed). Interior varnish.	74		Cottonseed oil (edible grade). Canceled Apr. 8, 1926.
23c		†Lamps, incandescent electric,	75		Do.
24		large, tungsten filament.	76		Do.
24		Lumber (grading and inspection rules, adopted by the various	77 78		Olive oil (edible grade). Canceled Apr. 8, 1926.
		lumber manufacturing associa-	79		Do.
Ofe		tions of the United States).	80	C157	Coal-tar pitch for roofing. Coal-tar saturated rag felt for
25c 26	C123	Feeds and forage. White floating soap (for toilet	81	C156	roofing and waterproofing.
		use).	82	C158	Surfacing materials for bitumi-
27	C124	Liquid soap.			nous built-up roofing.
28 29	C125	Soap powder. Salt-water soap.	83	C155	Coal-tar pitch for waterproofing
30	C126 C127	Automobile soap.	84	C159	and damp proofing. Asphalt for mineral-surfaced
31	C128	Chip soap.			roofing.
32 33a	C129 C130	Ordinary laundry soap.	85	C160	Asphalt for waterproofing and damp proofing.
34a	C370	Soap, grit cake. Powder, scouring, for floors.	86	C161	Asphalt-saturated rag felt for
35	C132	Hand grit soap.			roofing and waterproofing.
36a	C134	Fire-extinguishing liquid (carbon	87	C162	Asphalt primer for roofing and
37	C148	tetrachloride base). Leather belting.	88	C168	waterproofing. Asphalt for unsurfaced built-up
38b	C114	Cotton rubber-lined fire hose		0100	roofing.
20-		(couplings and gaskets).	89		Manganese-bronze ingots (for
39c 40b	C290	†Tubing, rubber. Gas hose.	90		remelting). Pig tin.
41b	C290 C307	Hose, pneumatic.	91a		Zinc, slab (spelter).
42		Hose, pneumatic. Dredging sleeves.	92		Measuring sizes of hosiery.
43		Air-brake and signal hose and gaskets.	93		Asbestos-copper gaskets, corrugated.
		Progress.			Poton.

iPrinted, see p. (II) as to procurement.

¹ Bureau of Mines Technical Paper No. 323 B.

				1	
	Bureau			Bureau	
Federal			Federal	of	
specifi-	Stand-		specifi-	Stand-	
cation	ards	Title	cation	ards	Title
No.	Circu-		No.	Circu-	
110.	lar No.		110.	lar No.	
	201 2.00			101	
94b	C243	Packing, asbestos metallic cloth	150	C174	Construction of built-up roofing,
010	0210	sheet.	200	01.1	type 5ACS.
95		Asbestos valve-stem packing.	151	C175	Construction of built-up roofing,
96c		Packing, asbestos sheet, com-			type 3TCS.
		pressed.	152	C176	Construction of built-up roofing,
97b	C242	Gaskets, asbestos metallic cloth.			type 4TCS.
98a	C240	Diaphragm packing.	153	C177	Construction of built-up roofing.
99		Fabric condenser-tube packing.			type 5TCS.
100		Fiber packing for lubricating	154	C178	Construction of built-up roofing,
		and fuel oil.			type 4TWS.
101c	C363	Packing, flax.	155	C179	Construction of built-up roofing,
102		Flexible metallic packing.		0100	type 5TWS.
103a	C238	Asbestos high-pressure rod pack-	156	C180	Installation of metal flashings
101	G 00 =	ing.			with bituminous built-up roof-
104a	C237	Low-pressure spiral-gland pack-		G404	ing.
105		ing.	157	C181	Installation of plastic flashings
105		Metallic packing (fixed-ring			with bituminous built-up roof-
106		type).	150		ing.
105 107a		Plastic metallic packing.	158	C100	Hair felt.
107a 108		Semimetallic packing.	159	C166	Light-weight duck (Army duck,
100		Solid metallic packing (floating-	160	C167	gray).
109		ring type). Canceled May 22, 1928. (See	100	0107	Tent duck (special construction for bleaching or dyeing, gray).
103		F. S. B. No. 96c.)	161b		*Coffee.
110a	C236	Cloth-insertion rubber packing.	162a		Pipe, welded steel (black and gal-
111b		tPackings and gaskets, rubber	1024		vanized).
1110		†Packings and gaskets, rubber (molded, sheet, and strip).	163	C182	Record and copying ink.
112a	C234	Wire-insertion rubber packing.	164	C183	Writing ink.
113a	C233	Tucks packing.	165	C184	Red ink.
114a	C244	Rubber valves.	166	C185	Stamp-pad ink.
115		Canceled Oct. 21, 1929.	167a	C186	
116		Phosphor tin.	168a	C187	Ribbons, typewriter. Ribbons, hectograph.
117			169a	C188	
118		Pig lead.	109a	C100	Ribbons, computing and recording machine.
119		Phosphor copper.	170		Ctool costings
120		Silicon copper.	171a		Steel castings.
121a		Ingot copper.	171a		Ship chain.
122		*Tableware, glass. Glass lantern globes and lamp	173a		Bronze castings. Aluminum bronze ingots (for re-
122		chimneys.	1754		melting).
123	C164	Flat glass for glazing purposes.	174		Welding wire, iron and steel.
124		Hand chemical fire extinguisher	175		Knife switches.
121		(1 quart carbon-tetrachloride	176		Renewable cartridge inclosed
		type).	110		fuses.
125		Ground chrome ore.	177a		Canceled June 20, 1929. (See Joint
126a		Iron, pig, foundry.	2114		Committee on Printing Paper
127a		Canceled June 20, 1929. (See			Specifications issued by Gov-
		Joint Committee on Printing			ernment Printing Office.)
		Paper Specifications issued by	178a		Do.
		Government Printing Office.)	179		No. 1 grade blue-print paper (sen-
128a		Do.			sitized and unsensitized).
129a		Do.	180		
130a		Do.			sitized and unsensitized).
131a		Do.	181		
132a		Do.			sitized and unsensitized).
133a		Do.	182a		Paper, brown process (sensitized
134		Aluminum ingot.		1	and unsensitized).
135		Ferrovanadium.	183	C212	Upholstery leather.
136a	C269	Rubber-metal gasoline hose.	184	C213	Lace leather.
137a	C165	Paint, olive-drab (semipaste and	185		(Withdrawn May 16, 1929.)
		ready mixed).	186a		Beds, hospital.
138		Ferromanganese.	187a		
139		Ferrochrome.	188		Folding hospital cot.
140		High-test gray-iron castings	189		
- 14		(semisteel).	400		frame.)
141			190		Liberty steel cot.
142			191		Brush, blacking, and dauber.
143		Ferromolybdenum.	192		Brush, casting.
144		Ferrotitanium.	193		Brush, clothes scrubbing.
145		Ferrosilicon.	194		Brush, euspidor.
146	C170	Construction of built-up roofing,	195a		Brushes, dauber, long paddle.
	C	type 4AWS.	196		Brush, deck scrubbing.
147	C171	Construction of built-up roofing,	197		Brush, deck scrubbing. Brush, hand floor scrubbing. Brush, hair, military.
1.10	Cuma	type 5AWS.	198		Brush, nair, military.
148	C172	Construction of built-up roofing,	199		Brush, radiator dustin
1.10	CHEC	type 3ACS.	200		
149	C173	Construction of built-up roofing,	201		
		type 4ACS.	202		Brush, tooth.
4 Date	5	n (II) as to progurement			

 $[\]dagger$ Printed, see p. (II) as to procurement.

Federal specifi- cation No.	Bureau of Stand- ards Circu- lar No.	Title	Federal specifi- cation No,	Bureau of Stand- ards Circu- lar No.	Title
203		Brush, window.	266a	C197	Ink, marking, indelible, for fab-
204		Broom, rattan push.			ries.
$\frac{205}{206}$		Broom, rattan (upright). Broom, scrubbing.	267 268a	C299	*Meat and meat-food products. Brick, fire-clay.
207		Broom, wire push.	269a		Rods, welding, nonferrous, for
208a 209	C191	Duster, counter. Battleship linoleum.	270		gas welding. *Fruits (fresh and dried) and
210	C190	Plain, inlaid, and printed line-	071		iruit products.
211		leum. Magnesia asbestos plaster.	271 272		*Vegetables (fresh and dried). Naval and commercial brass cast-
212		Magnesia molded pipe covering			ings.
213		and blocks. Hand chemical fire extinguishers	273 274		Spiegeliesen. (Withdrawn May 27, 1929.)
		(soda-and-acid type).	275		Road oil for hot application (type
214 215b	C192	Asphalt prepared roofing. Surgeons' rubber aprons.	276a		OH-1-25). Asphalt for use in road and pave-
216a		Helmet-shaped ice bag.			ment construction.
217 218	C227 C222	Rubber ice bags. Politzer bags.	277		Petroleum asphalt for joint filler (squeegee or pouring method),
219	C219	Rubber bandages.			Type PAF-1-25.
220b		Cloth-inserted hot-water bottle.	278	C215	Outside white titanium-zine paint (semipaste and ready
221b 222	C225	Rubber hot-water bottles. Rubber eatheters.			mixed).
223		Rubber cement for medical rub-	279 280		Tars for cold application. Refined tar for hot application
224b		ber goods. Rubber finger cots.			(type TH-1-25).
225	C223	Rubber tips for crutches.	281		Tar for use in repair work.
226b		Cloth-inserted ring cushions.	282 283	C216	Refined tar for construction. Putty.
227b 228	C218	Rubber ring cushions. Rubber dam.	284	C211	Gypsum wall board.
229	C217	Surgeons' rubber gloves.	285 286	C210	Gypsum plaster board.
230b 231a		Surgical operating pads.	287		Brass castings to be brazed. Tubing, copper, seamless, and
232b		Rubber pillow cases. Rubber air pillows.			pipe, copper, seamless, stand-
233a	C253	Rubber sheeting.	283		ard iron pipe size. Cotton, absorbent.
234b 235b		Cloth-inserted fountain syringe. Rubber fountain syringe.	289		Gauze, plain.
236	C221	Colon tube.	290a 291	C229	Bronze ingots (for remelting). Friction tape.
237 238	C220	Stomach or lavage tube. Pipe threads.	292	C230	Rubber insulating tape.
239	C200	Heavy rust-preventive com-	293 294	C287	Canceled Mar. 27, 1929. Asphalt-saturated woven cotton
240		pound.		1	fabric for waterproofing.
240	C198	Folding canvas cot. Sole leather.	295	C286	Asphalt-saturated rag felt for flashings.
242a		Wrought iron pipe, uncoated and	296	C285	Slate-surfaced, asphalt prepared
243a		zinc coated (galvanized). Chinaware, vitrified.	297	C208	roofing and shingles.
244	C194	Milled toilet soap.	297	C208	Wire rope. (Price, 15 cents.) Bandage, gauze, compressed.
245 246	C195 C193	Powdered soap (for laundry use). Liquid soap (for laundry use).	299		Bandage, plain gauze roller, as-
247	C205 C206	Gypsum plaster.	300		sorted. Bandage, plaster of Paris.
248	C206	Calcined gypsum. Hydrated lime for structural	301a		†Shecting, cotton, unbleached.
249	C204	purposes.	302 303	C278 C273	Brown wide cotton sheetings. Bleached wide cotton sheetings.
250	C201	Quicklime for structural pur-	304	C274	Bleached cotton sheets (medium
251a	C255	poses. Cheesecloth for wiping purposes.	305	C277	and high count sheeting).
252b	C258	Cheesecloth, unbleached. Cheesecloth, bleached.	306	0211	Bleached cotton pillow cases. Spelter solder (for brazing).
253b 254c	C365	†Denim, brown (shrunk).	307		Silver solder.
		†Denim, brown (unshrunk).	308 309		Sheet lead. Thermometers, clinical.
256e		†Denim, bluc (shrunk).	310		Petroleum ether.
257b		†Denim, blue (unshrunk).	311	C1071	Rigid conduit, enameled.
258b		†Cloth, airplane, mercerized cotton, grade A.	312	C271	Rubber gloves for electrical workers (for use in connection
259a	C261	Rags, cotton, colored, for wiping		-	with apparatus or circuits not
260	C267	machinery (sterilized). Wiping cloths.	313	1	exceeding 3,000 volts to ground). Tin-lead solder.
261a	C264	Rags, cotton, white, for wiping	314		Railroad track scales.
262a	Coeo	machinery (sterilized).	315b		*Sirup. Steel blooms, billets, slabs, and
263a	C262 C263	Cotton waste, white. Cotton waste, colored.	316		bars, for reforging, carbon and
264a	C260	Wool waste, colored.	9170		alloy.
265a	C196	Ink, drawing, black waterproof.	31/8		*Oatmeal and rolled oats.

[†] Printed, see p. (II) as to procurement.

1 Liquid measuring devices, retail type. 1 type. 1 Burglar-resisting safes. 1 Condiments. 1 Codating, asphalt and asbestos, slate-surfaced. 1 Cordiments. 1 Codating, asphalt fibrous. 2 Codating,						
Federal Specification and area of the property		D		1	Danne	
specific No. Structural nickel steel. Steel, structural, for cars. Structural nickel steel. Steel, structural, for cars. Steel, structural, s	Fodorol			Federal.	Bureau	
eation Ards No. Circular No. Structural nickel steel. Steel, structural, for cars. Condenser tubes and tubes for cond			·	specifi-		
No. Gircus Irros Gircus Gircu			Title	cation	ards	Title
lar No.		Circu-		No.	Circu-	
Joint Committee on Printing Paper Spedications issued by Government Frinting Office). 320 321 322 322 323 324 325 325 326 327 327 327 328 327 328 329 329 329 320 329 320 320 320 320 321 320 321 321 322 322 322 323 324 325 325 326 327 327 328 329 329 320 320 320 320 320 320 320 321 320 320 321 320 320 321 320 320 320 320 320 320 320 320 320 320		lar No.				
Joint Committee on Printing Paper Spedications issued by Government Frinting Office). 320 321 322 322 323 324 325 325 326 327 327 327 328 327 328 329 329 329 320 329 320 320 320 320 321 320 321 321 322 322 322 323 324 325 325 326 327 327 328 329 329 320 320 320 320 320 320 320 321 320 320 321 320 320 321 320 320 320 320 320 320 320 320 320 320						
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Joint Committee on Printing Paper Spedications issued by Government Frinting Office). 320 321 322 322 323 324 325 325 326 327 327 327 328 327 328 329 329 329 320 329 320 320 320 320 321 320 321 321 322 322 322 323 324 325 325 326 327 327 328 329 329 320 320 320 320 320 320 320 321 320 320 321 320 320 321 320 320 320 320 320 320 320 320 320 320			Canceled June 20 1020 (See	3739		Steel structural for core
Paper Spedifications issued by Government Printing Office). 232	515		Joint Committee on Printing			Condenser tubes and tubes for
Government Printing Office)			Paper Specifications issued by			ferrule stock (Admiralty metal).
Do. 376 Casta Variani, shellac.			Government Printing Office).			Shellac, flake orange.
Do. Do. 379 Do. 379 Do. 379 Do. 379 Do. 380 Do. 381 Do. 383 Do. 384 Do. 385 Do. 387 Do. 387 Do. 387 Do. 387 Do. 388 Castings, fron, malleable. Cement, asphalt plastic. Darry products. Stronger, rubber. Stitches, seams, and stitching. (Price, 20 cents.) Paper, finit. Paper, garnet. Cloir, abrasive, aluminum oxide. Brass rods, bars, shapes, plates, sheets, and striching. Paper, garnet. Cloir, abrasive, aluminum oxide. Brass rods, bars, shapes, plates, sheets, and strips, commercial. Sasa Compressed cork (cork board). Conducted and uncoated. Polishing paste. 101 102 103 103 104 105 107 108 108 109 109 109 109 109 109			Do.		C303	Varnish, shellac.
Do. 379 Withdrawn Oct. 21, 1929.	321					Paper fasteners, brass.
Do. Sila Cement, asphalt plastic.				3788		Uastings, iron, malleable.
255 Do. 266 Do. 277 Do. 278 Do. 279 Do. 270 Do. 270 Do. 271 Do. 271 Do. 272 Do. 273 Do. 273 Do. 273 Do. 274 Do. 275 Do. 275 Do. 276 Do. 277 Do. 277 Do. 278 Strickes, seams, and stitching. Price. 20 cents.) 279 Price. 20 cents.) 270 Cloth, abrasive, aluminum oxide. 270 Cloth, abrasive, aluminum oxide. 271 Do. 272 Bulders' hardware. (Price, 15 Sp. 273 Bulders' hardware. (Price, 15 Sp. 275 Bulders' hardware. (Price, 15 Sp. 276 Compressed cork (cork board). 277 Bulders' hardware. (Price, 15 Sp. 278 Compressed cork (cork board). 278 Ground cork for insulating purposes. 279 Miscellaneous provisions. 270 Unions, malleable iron or steel. 271 Bulders' hardware. (Price, 15 Sp. 272 Unions, malleable iron or steel. 273 Unions, malleable iron or steel. 274 Cheesecloth remnants for wiping purposes. 275 Price and fittings, soil, cast from, purposes. 276 Price and fittings, soil, cast from, purposes. 277 Cheesecloth remnants for wiping purposes. 278 Price and fittings, soil, cast from, purposes. 279 Price and fittings, soil, cast from, purposes. 270 Price and fittings, soil, cast from, purposes. 270 Price and fittings, soil, cast from, purposes. 271 Chesseloth remnants for wiping purposes. 272 Price and fittings, soil, cast from, purposes. 273 Strickers and track					2	Cament asphalt plactic
287 Do. 287 Do. 288 Do. 388 C398 Stoppers, rubber. 389 C390 Stoppers, rubber. 380 C390 Do. 381 C293 Stitches, seams, and stitching. 482 Whisk brooms. 383 C393 Brooms, corn. 3836 C297 Refractories, fire-clay, plastic. 386 C297 Refractories, fire-clay, plastic. 387 C298 Stoppers' hardware (Price, 15 cents.) 388 C37 C297 Refractories, fire-clay, plastic. 389 C38 G1ay, fire. 380 C297 Refractories, fire-clay, plastic. 381 Liquid metal polish. 382 C298 C1ay, fire. 383 C297 Refractories, fire-clay, plastic. 383 C37 Countressed cork (cork board). 383 C37 Countressed cork (cork board). 384 C293 Steel, structural for billings, solic, ast fron, corted and uncoated spanning to the corted and uncoated and uncoated spanning to the corted spanning to the corted and uncoated spanning to the corted and uncoated spanning to the corted spanning	325					*Dairy products
227 Do. Do. Do. Do. Do. Do. Do. Do.			Do.		C306	Matting, rubber.
288 Do. Do. Do. Jo. Do. Do. Jo. Do. Do. Do. Do. Do. Do. Do. Do. Do. D					C308	Stoppers, rubber.
381	328			384	C283	Stitches, seams, and stitching.
381a Do. 382 Whisk brooms. 383a Brooms, corn. 383b C297 Refractories, fre-clay, plastic. 385 C297 Builders' hardware. (Price, 15 cours.) 386 C297 Builders' hardware. (Price, 15 cours.) 387 C387 Carls, free Carls, plastic. 388 Grooms, corn. 389 C197 Refractories, free-clay, plastic. 380 C297 Builders' hardware. (Price, 15 cours.) 380 C297 Builders' hardware. (Price, 15 cours.) 381 C296 Builders' hardware. (Price, 15 cours.) 382 Builder's hardware. (Price, 15 cours.) 383 C297 Builders' hardware. (Price, 15 cours.) 384 Carls, free Carls, free Clay, plastic. 385 C297 Builders' hardware. (Price, 15 cours.) 386 C297 Builders' hardware. (Price, 15 cours.) 386 C297 Builders' hardware. (Price, 15 cours.) 387 Cloth, emery. 389	329				0	(Price, 20 cents.)
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333a Brooms, corn. 334a C298 Clay, fre. 335a C297 Refractories, free-clay, plastic. 336 C297 Suilders' hardware. (Price, 15 and Cants.) 337 Compressed cork (cork board). 338 Ground cork for insulating purposes. 339a Metals, general specifications for. 340 Polishing paste. 341 Liquid metal polish. 342a Fipe, brass, seamless, fron pipe size, standard and extra strong. 343a Pipe roas, seamless, fron pipe size, standard and extra strong. 344 Conditions for the control of			D0.			Paper, garnet.
384a C298 Clay, fire. 385a C275 Refractories, fire-clay, plastic. 386 C275 Refractories, fire-clay, plastic. 387 C276 Refractories, fire-clay, plastic. 388 Polish, silver. 389 Polish, silver. 389 Polish, silver. 389 Polish, silver. 389 Polish, silver. 380 Ground cork for insulating purposes. 380 From Metals, general specifications for. 380 Polishing paste. 380 Polish, silver. 381 Problem for bar, sheep, plates, sheets, and strips, commercial. 381 Problem for steel. 382 Problem for steel. 383 Problem for sheep, sheep, sheep, plates, sheets, and strips, commercial. 384 Polishing paste. 385 Polishing paste. 386 Polishing paste. 387 Polishing paste. 388 Problem for sheep, sheep, plates, sheets, and strips, commercial. 389 Polish, silver. 380 Problem for bar, sheep, plates, sheets, and strips, commercial. 380 Problem for sheep. 380 Problem for sheep. 380 Problem for sheep. 380 Problem for sheep. 381 Problem for sheep. 382 Problem for sheep. 383 Problem for sheep. 384 Problem for sheep. 385 Problem for sheep. 385 Problem for sheep. 386 Problem for sheep. 387 Problem for sheep. 388 Problem for sheep. 389 Problem for sheep. 380 Problem for sheep. 381 Problem for sheep. 382 Problem for sheep. 383 Problem for sheep. 384 Problem for sheep. 385 Problem for sheep. 386 Problem for sheep. 388 Problem for sheep. 388 Problem for sheep. 389 Problem for sheep. 389 Problem for sheep. 380 Problem for sheep. 380 Problem for sheep. 380 Problem for sheep. 381 Problem for sheep. 382 Problem for sheep. 383 Problem for sheep. 384 Problem for sheep. 385 Problem for sheep. 386 Problem for sheep. 387 Problem for sheep. 388 Problem for sheep. 388 Problem for sheep. 389 Problem for she				387b		Cloth amory
335a C297 Refractories, fire-clay, plastic. 336 C275 Builders' hardware. (Price, 15 cents.) 337 Compressed cork (cork board). 338 Ground eork for insulating purposes. 339a Metals, general specifications for. 340 Polishing paste. 341 Liquid metal polish. 342 Pipe, brass, seamless, iron pipe size, standard and extra strong. 343a Pipe and fittings, soil, east froncoated and uncoated. 344 Cheesecloth reminants for wiping price and fittings, soil, east froncoated and uncoated. 345 Pipe, brass, earnless, iron pipe size, standard and extra strong. 346 Cheesecloth reminants for wiping price and fittings, soil, east froncoated and uncoated. 347 Cheesecloth reminants for wiping field in the property of	224c	Cone	Clay fire			*Miscellaneous provisions
Sample S		C297				Polish, silver.
Cents Compressed cork (cork board). 338 Ground cork for insulating purposes 394 Ground cork for insulating purposes 394 Greneral specification for paper. 395 Greneral specification for paper. 434 Liquid metal polish Size, standard and extra strong 434 Size, standard and extra strong 435 Fipe and fittings, soil, cast iron 400 Brushes, date, celling and wall. Brushes, calcimine. 400 Brushes, date, celling and wall. Brushes, falled into for paper. 402 Brushes, date, celling and wall. Bru		C275	Builders' hardware, (Price, 15			Iron bar, wrought, refined.
Gound cork for insulating pur- poses. Metals, general specifications for. Metals, general specifications for. Polishing paste. Itiquid metal polish. Pipe, brass, seamless, iron pipe size, standard and extra strong. Pipe and fittings, soil, cast iron, coated and uncoated. Cheesecloth reimants for wiping purposes. Teather intervals and canned insection of tubes. Nomenewable plug fuses. Standard miscellaneous chain and attachments. Lapwelded charcoal iron boiler tubes. Standard miscellaneous chain and attachments. Standard miscellaneous chain sand attachments. Standard miscellaneous chain and attachments. Standard miscellaneous chain sand attachments. Standard miscellaneous chain and attachments. Standard miscellaneous chain sand attachments. Bars, concrete reinforcement. 410 Tableware, silver plated. Standard, sandard, sandard, sandard, sandard, canned). Rulers, desk. Standard miscellaneous chain sand trips, office sectional, cabinets, office sandard, sa		02.0	cents.)			Brass rods, bars, shapes, plates.
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Polishing paste. 341	000					General specification for paper.
Adding the policy of the property of the pro			Metals, general specifications for.	395		Preservatives, wood, and proc-
Pipe, brass, seamless, fron pipe size, standard and extra strong. Some			Liquid motel polich	2060		
Size, standard and extra strong. 398			Pine brass seamless iron nine	3079		Brushes dust calling and wall
Pipe and fittings, soil, cast iron, coated and uncoated. Cheesecloth remnants for wiping purposes. Textile materials, general specifical and chemical tests). Afa Textile materials, general specifical and chemical tests). Afa Monenewable plug fuses. Afa Lapwelded and seamless steel boiler tubes. Standard miscellaneous chain and attachments. Afa Lapwelded charcoal iron boiler tubes. Afa Standard miscellaneous chain and attachments. Afa Lapwelded charcoal iron boiler tubes. Afa Steel, structural for bridges. Afa Steel, structural for bridges. Afa Soila Steel, structural for bridges. Afa Soila Steel, structural for bridges. Afa Soila Steel structural for bridges. Afa Soila Steel, structural for bridges. Afa Soila Steel, structural for bridges. Afa Soilam fluoride (insecticide). Afa Soilam cyanide (for use as an insecticide in fumigation). Dental amalgam alloy. Boilable catgut ligatures (surgical atgut suture material). Afa Desks, wood. Afa Desks, wood. Afa Shears and scisors, office. Afa Shear Afa She	0424					Brush, fiber garage
coated and uncoated. Cheesecloth remnants for wiping purposes. 45a	343a		Pipe and fittings, soil, cast iron.			Brushes, flat fitch.
Cheesecloth remnants for wiping purposes,	0 200					Sweep, floor, hair.
State	344		Cheesecloth remnants for wiping			Brushes, glue, round.
Brushes, marking, white tamble of tubes August Augu			purposes.			Brush, glue, flat.
Sample S	345a		Trextile materials, general speci-			Brushes, lacquering, flat.
Nonrenewable plug fuses. 406b Brushes, sash tool, oval.						Brusnes, marking.
boiler tubes. Standard miscellaneous chain and attachments. Lapwelded charcoal iron boiler tubes. Standard miscellaneous chain and attachments. Lapwelded charcoal iron boiler tubes. Bars, concrete reinforcement. Steel, structural for bridges. 412 Steel, structural for bridges. 413 C312 Matches, salety, white tampico. Furniture and cabinets, office steel sectional. Tableware, silver plated. Paste, office and library. Padlocks. Matting, rubber, for use around electrical apparatus or circuits of ground. In electrical apparatus or circuits of ground. Halfa Steel, structural for bridges. Hatting, rubber, for use around electrical apparatus or circuits of ground. Halfa Steel, structural for bridges. Hatting, rubber, for use around electrical apparatus or circuits of ground. Halfa Steel, structural for bridges. Hatting, rubber, for use around electrical apparatus or circuits of ground. Halfa Steel, structural for bridges. Hatting, rubber, for use around electrical apparatus or circuits of ground. Halfa Steel, structural for bridges. Hatting, rubber, for use around electrical apparatus or circuits of ground. Halfa Steel, structural for bridges. Hatting, rubber, for use aroun	246		Nonrenowable plug fuses			Brushes, mottling.
Standard miscellaneous chain and attachments. Lapwelded charcoal iron boiler tubes. Bars, concrete reinforcement. 410			Lanwelded and seamless steel			Brush hand scrub white tame
348Standard misseellaneous chain and attachments.408Furniture and cabinets, office steel sectional.349Lapwelded charcoal iron boiler tubes.409Chairs, office.350aBars, concrete reinforcement.410Tubes, radio receiving electron.351aSteel, structural for bridges.412Tableware, silver plated.352aSteel, structural for buildings.413aPadlocks.353Insect powder (pyrethrum powder).414C312Matting, rubber, for use around electrical apparatus or circuits not exceeding 3,000 volts to ground.354Sodium fluoride (insecticide).Sodium cyanide (for use as an insecticide in fumigation).416aBlades, hack saw.356Dental amalgam alloy.416Blades, hack saw.358aFurniture, office sectional, cabinets and trays, wood.417Drills, breast.360Rulers, desk.Pullers, nail.Rules.361aShears and scissors, office.420Wax, sealing.362Liquid measuring devices, retail type.420Max, sealing.363*Condiments.422aTowels, huck, office (with woven name).364*Condiments.424Roofing, prepared, asphalt and asbestos, slate-surfaced.365a*Sea food (fresh, salt, smoked, and camed).426Paper, carbon, black, light weight (for typewriter use).366aCalendar stands and pads.426Paper, carbon, black, standard weight (for typewriter use).368Sponge and pin cups.429AlaC314369aAluminum br	011			101		pico.
and attachments. Lapwelded charcoal iron boiler tubes. Bars, concrete reinforcement. Steel, structural for bridges, Steel,	348		Standard miscellaneous chain	408		
tubes. Bars, concrete reinforcement. Steel, structural for bridges. 412 Alaa C312 Matting, rubber, for use around electrical apparatus or circuits not exceeding 3,000 volts to ground. Bades, hack saw. Braces, ratchet. Drills, breast. Driller, prall. Rules. Pallocks. Matthing, rubber, for use around electrical apparatus or circuits not exceeding 3,000 volts to ground. Bades, hack saw. Braces, ratchet. Drills, breast. Pullers, nall. Rules. Pullers, nall. Rules. Roofing, prepared, asphalt and asbestos, slate-surfaced. Roofing, prepared, asphalt fibrous. Paper, carbon, black, office (with woven name). Tubes, ffice and library. Padlocks. Steel, structuring for use around electrical apparatus or circuits not exceeding 3,000 volts to ground. Bades, hack saw. Brulers, nall. Rules. Pallers, nall. Rules. Scola Spears and scissors, office. Towels, huck, office (with woven name). Tubes, fitter all paparatus or circuits not exceeding 3,000 volts to ground. Bades, hack saw. Brulers, nall. Rules. Calcal Spears and scissors, office. Trowels, huck, office with woven name). Tubes, fitter all paparatus or circuits not exceeding 3,000 volts to ground. Bades, hack saw. Brule						steel sectional.
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Boilable catgut ligatures (surgical cal catgut suture material). 358a			insecticide in fumigation).			Blades, hack saw.
Boilable catgut ligatures (surgical cal catgut suture material). 358a						Braces, ratchet.
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Furniture, office sectional, cabinets and trays, wood. Rulers, desk. 420	2500		Doelre wood			Pullers, nall.
nets and trays, wood. Rulers, desk. Shears and scissors, office. Liquid measuring devices, retail type. Burglar-resisting safes. 363 364 365 365 366a 366a 367b 368 368 368 368 368 368 368 368 368 368			Furniture office sectional cabi-		1	War sealing
360 Rulers, desk. 361a Shears and scissors, office. 362 Liquid measuring devices, retail type. 363 Burglar-resisting safes. 364 *Condiments. 365a *Sea food (fresh, salt, smoked, and canned). 366a Calendar stands and pads. 367b C368 Shades, window, shade cloth rollers, slats, cords, and accessories. 368 Sponge and pin cups. 369 Aluminum bronze castings. 370 Manganese bronze castings. 371 Nickel, for remelting. 362 Phenol sulphate). 422a TTOwels, huck, office (with woven name). 423 Roof coating, asphalt fibrous. 424 Roof coating, asphalt fibrous. 425 Paper, carbon, black, standard weight (for typewriter use). 427a Valendar stands and pads. 427a Valendar stands and accessories. 428 C318 Natches, safety (full size, in boxes). 50da ash. 50da caustic (lye) (for cleaning purposes). 50da, laundry (washing soda).	0004		nets and trays, wood.			Metol (mono-methyl-para-amino
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Liquid measuring devices, retail type. 423			Shears and scissors, office.	422a		Towels, huck, office (with woven
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*Sea food (fresh, salt, smoked, and canned). Calendar stands and pads. Cass Shades, window, shade cloth rollers, slats, cords, and accessories. (See F. S. No. 555b.) Sponge and pin cups. Aluminum bronze castings. Manganese bronze castings. Nickel, for remelting. *Sea food (fresh, salt, smoked, and canned). 425 ——Paper, carbon, black, light weight (for typewriter use). Paper, carbon, black, light weight (for typewriter use). Called Weight (for typewriter use). Tubing, brass, seamless. Matches, safety (full size, in boxes). Soda ash. Soda, caustic (lye) (for cleaning purposes). Soda, laundry (washing soda).			Burgiar-resisting sales,	101		aspestos, slate-surfaced.
and canned). Calendar stands and pads. Calendar stands and pads. Shades, window, shade cloth rollers, slats, cords, and accessories. Sponge and pin cups. Aluminum bronze castings. Manganese bronze castings. Nickel, for remelting. Aluminum shade cloth rollers, salety (for typewriter use). 427a 427a 427a Call Natches, salety (full size, in boxes). Soda ash. Soda, caustic (lye) (for cleaning purposes). Soda, laundry (washing soda).		i	*See food (fresh self smelesd			Paper sorbon block light
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367b C368 Shades, window, shade cloth rollers, slats, cords, and accessories. (See F. S. No. 555b.) 368 Sponge and pin cups. 369a Aluminum bronze castings. 370 Manganese bronze castings. 371 Nickel, for remelting. 368 Soda ash. 370 Soda ash. 370 Soda, caustic (lye) (for cleaning purposes). 371 Soda, laundry (washing soda).	2669		Calendar stands and pads.	126		Paper, carbon, black, standard
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368	50.0	2000	ers, slats, cords, and accesso-	427a		Tubing, brass, seamless.
368			ries. (See F. S. No. 555b.)	428	C318	Matches, safety (full size, in
369a Aluminum bronze castings. 370 Manganese bronze castings. 371 Nickel, for remelting. 369a 429 C314 Soda ash. 370 C315 Soda, caustic (lye) (for cleaning purposes). 371 C316 Soda, laundry (washing soda).	368					boxes).
370 Manganese bronze castings. 371 Nickel, for remelting. 430 C316 Soda, catstic (1ye) (for cleaning purposes). Soda, catstic (1ye) (for cleaning purposes). Soda, catstic (1ye) (for cleaning purposes).	000					Soda ash.
371 Nickel, for remelting. 431 C316 Soda, laundry (washing soda).				430	C315	
				121	C316	Soda laundry (washing soda)
+ Dwinted see p. (v) on to programment				101	0010	Louis, maning (washing soud).

[†] Printed, see p. (II) as to procurement.

Federal specifi- cation	Bureau of Stand- ards	Title	Federal specifi- cation	Bureau of Stand- ards	Title
No.	Circu- lar No.		No.	Circu- lar No.	
432	C317	Sodium carbonate, granular (monohydrate crystals).	469		Steel, structural, for ships other than naval vessels.
433 434 435		Hatchets. Bars, chisels, crow and pinch. Cutters, glass.	470 471		Calcium carbide. Cupboard and locker equipment, steel.
436		Dividers.	472a		Thermometers, industrial.
437 438		Cutters, pipe. Chisels, gouges, and slicks, wood- workers'.	473 474		Scales, weighing, general specification for. Ladles, plumber's.
439		Coppers, soldering.	475b	C362	Oil, linseed, boiled.
440		Sets, hand saw.	476	C331	Chrome yellow (lemon, medium and orange; dry paste in oil
441 442		Scribers, machinists'. Knives, shoe.			and paste in japan).
443	C321	Cement, masonry. Integral waterproofing material,	477		Desks, steel.
444a	C360	Integral waterproofing material,	478 479		Tables and stands, wood.
		water-repellant type (for use with Portland cement, mortar,	480		Frames, saw, hack. Saws.
		or concrete).	481		Jacks.
445	C323	Cement, plastic magnesia (magnesia-oxychloride), used as	482 483a	C338	Leather, bag. †Leather, rigging.
		nesia-oxychloride), used as flooring, bases, wainscots, etc.	484a		Cancelled June 20, 1929. (See
446 447	C326	Ammonium chloride (sal ammoniae). Rope, cotton.			Joint Committee on Printing Paper Specifications issued by
448	C310	Plumbing fixtures (for land use).	485	C336	Government Printing Office). Gaskets, metallic encased. Packing, hard fiber sheet.
440		(Price, 15 cents.) Adzes.	486 487	C335 C334	Packing, hard fiber sheet.
449 450		Shaves, spoke	488	C334	Packings, asbestos wick and rope. Knives, drawing.
451		Shears, tinners', hand (snips). Materials for top-soil or sand-	489		Pipe fittings, cast-iron (threaded).
452		Materials for top-soil or sand- clay road surfaces.	490		Tubes, seamless steel, for aircraft purposes.
453		Gravel for gravel roads.	491		Fans, electric, dresk and bracket
454		Coarse aggregate for Portland ce- ment concrete payement or	492 493	C349 C348	type. Boots, rubber, hip.
455		base (stone, slag, and gravel). Broken stone, broken slag, or gravel for bituminous surface	494 495	C350	Boots, rubber, short, light. Boots, rubber, short, heavy. Pipe, concrete, plain.
456		treatment. Broken stone and broken slag for waterbound base or wearing	496 497a	C340	Leather, hydraulic packing (vegetable tanned). †Bunting, wool.
457		course. Broken stone and broken slag for bituminous macadam base or	498 499 500	C357 C352 C351	Oilcloth, table, white. Burlap, jute. Tablecloths, cotton.
45 8		surface course. Broken stone and broken slag for bituminous concrete base or	501 502 503	C354 C353 C356	Carpets, velvet, plain. Carpets and rugs, Axminster. Carpets and rugs, Wilton.
450		surface course.	504	C345	Brick, clay, common. Brick, sand-lime, common.
459		Broken stone and broken slag for binder course, sheet asphalt pavement.	505 506 507	C347 C344 C342	Tile, hollow, clay, floor. Tile, hollow, clay, load-bearing
460		Sands for use in sheet asphalt or bituminous concrete pavements.	508	C343	wall. Tile, hollow, clay, fireproofing, partition and furring.
461		Sand for cement grout filler, brick and stone block pave- ments.	509 510		Drills, hand, with hollow handle. Block for granite, recut granite, and durax granite pavements.
462		Sand for cement mortar bed for brick, stone block, or wood	511 512a 513a		Brooms, metal case. Brushes, flowing, badger hair. Brushes, flowing, squirrel tail
463		block pavements. Mineral filler for sheet asphalt or asphaltic concrete pavements (Portland coment, limestone	514a 515a		hair. Brushes, flowing, skunk hair. Brushes, paint, flat metal bound
464		Fine aggregate for Portland ce-	516a		Brushes, paint, flat metal bound
465		ment concrete pavement or base (sand, etc.). Materials for cushion course, brick, stone block, or wood block pavement (sand, slag,	517a 518a 519a		(medium grade). Brushes, radiator bronzing. Brushes, roof, knotted style, 3 knots. Brushes stencil (flag ands cut)
466		limestone screenings, etc.). Belting, conveyor (stitched	520a		Brushes, stencil (flag ends cut). Brushes, stencil (flag ends preserved).
467		duck). Copper rods, bars, shapes, plates,	521a		Brushes, varnish, flat (triple X thickness).
468		sheets, and strips. Silver, nickel, rods, bars, shapes,	522a		Brushes, varnish, flat (double X thickness).
		plates, sheets, and strips (German silver).	523 524 b		Brushes, wall stippling.

[†] Printed, see p. (II) as to procurement.

Federal Specific Stand- specif						
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specific No. Circu lar No. Dusters, painters', flat. Sec. May the sec. Circu, sain, cotton braided. Sec. Cord, sash, cotton braided. Sec. Cord, canned. Sec. Cord, canne						
cation No. Circular No. Dusters, painters', flat. Section No. Circular No. In Photography. In No. In No. In Photography. In No. In	Federal	of				
cation No. Circular No. Dusters, painters', flat. Section No. Circular No. In Photography. In No. In No. In Photography. In No. In	specifi-	Stand-	(D)+1-	specifi-	Stand-	m:41a
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Dusters, painters', flat. Dusters, painters', flat. Dusters, painters', round. Ser	140.			110.		
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Secondary Seco						
Dusters, painters', round. S7	FOE-		Destant and det	F00	1	California sullabita ambadassa for
Content Cont			Dusters, painters, nat.	980		
Cord, sash, cotton braided. See Twine, cotton, seine. See Twine, cotton. S	526a					photography.
Cord, sash, cotton braided. See Twine, cotton, seine. See Twine, cotton. S	527	C358	Hose, fire, unlined linen.	587		Insulation, 30 per cent rubber, for
Twine, cotton, seine. 530	528		Cord, sash, cotton braided.			wire and cable for general pur-
Twine, cotton: Simple Si			Twine, cotton, seine.			
Limber, Softwood, yard and ale- 534 Norly, spikes, tacks, and staples, 535 Total antifriction, ingots and castings. 536 Metal, antifriction, ingots and castings. 537 Fipe, water, centrifugally east iron. 538 Receptacles, waste-paper, fiber, office and lobby. 539 Character, spikes, facks, and staples, 530 Total antifriction, ingots and castings. 530 Paper, drawing, 531 Paper, drawing, 532 Paper, drawing, 533 Paper, tracing, 534 Paper, tracing, 535 Paper, drawing, 536 Paper, drawing, 537 Paper, drawing, 538 Receptacles, waste-paper, fiber, office and lobby. 539 Character, 539 Character, 530 Character, 530 Character, 530 Character, 541 Goggles, for protection against flying particles and chips. 542 Goggles, for protection against flying particles and chips. 544 Helmets, welders'. 545 Character, 546 Masks, babliting, 547 Sheleds, welders'. 548 Bolts, nust, and machine screws. 549 Steel plates, marine boiler. 540 Steel, stay bolt, boiler. 541 Laundry appliances. 542 Steel plates, marine boiler. 543 Shade cloth (See F. S. No.367 b.) 544 Sheleds, welders'. 545 Shade cloth (See F. S. No.367 b.) 546 Cace 547 Cace 548 Masks, babases for plaster and 549 Steel plates, marine boiler. 540 Steel, stay bolt, boiler. 541 Laundry appliances. 542 Bronze, manganese, rods, bars, 544 Metal bases for plaster and 545 Almed Laundry appliances. 546 Cace 547 Cace 558 Shade cloth (See F. S. No.367 b.) 559 Cace 560 Cace 561 Drill (unbleached), 562 Ber forgue, canned. 563 Bacon, canned. 564 Hearts, beef. 565 Cace 565 Cace 565 Cace 565 Cace 566 Liver, beef. 567 Accomment. 568 Drill connect. 569 Sugar, see-picked, smoked. 569 Bacon, sweet-pickled, smoked. 560 Bacon, sweet-pickled, smoked. 561 Bacon, sweet-pickled, smoked. 562 Ber forgue, canned. 563 Bacon, canned. 564 Hearts, beef. 565 Cace 565 Cace 565 Cace 566 Cace 567 Sugar, see-press. 567 Accomment. 568 Cace 569 Cace 569 Cace 560				588	1	tHose water braided
Limber, Softwood, yard and ale- 534 Norly, spikes, tacks, and staples, 535 Total antifriction, ingots and castings. 536 Metal, antifriction, ingots and castings. 537 Fipe, water, centrifugally east iron. 538 Receptacles, waste-paper, fiber, office and lobby. 539 Character, spikes, facks, and staples, 530 Total antifriction, ingots and castings. 530 Paper, drawing, 531 Paper, drawing, 532 Paper, drawing, 533 Paper, tracing, 534 Paper, tracing, 535 Paper, drawing, 536 Paper, drawing, 537 Paper, drawing, 538 Receptacles, waste-paper, fiber, office and lobby. 539 Character, 539 Character, 530 Character, 530 Character, 530 Character, 541 Goggles, for protection against flying particles and chips. 542 Goggles, for protection against flying particles and chips. 544 Helmets, welders'. 545 Character, 546 Masks, babliting, 547 Sheleds, welders'. 548 Bolts, nust, and machine screws. 549 Steel plates, marine boiler. 540 Steel, stay bolt, boiler. 541 Laundry appliances. 542 Steel plates, marine boiler. 543 Shade cloth (See F. S. No.367 b.) 544 Sheleds, welders'. 545 Shade cloth (See F. S. No.367 b.) 546 Cace 547 Cace 548 Masks, babases for plaster and 549 Steel plates, marine boiler. 540 Steel, stay bolt, boiler. 541 Laundry appliances. 542 Bronze, manganese, rods, bars, 544 Metal bases for plaster and 545 Almed Laundry appliances. 546 Cace 547 Cace 558 Shade cloth (See F. S. No.367 b.) 559 Cace 560 Cace 561 Drill (unbleached), 562 Ber forgue, canned. 563 Bacon, canned. 564 Hearts, beef. 565 Cace 565 Cace 565 Cace 565 Cace 566 Liver, beef. 567 Accomment. 568 Drill connect. 569 Sugar, see-picked, smoked. 569 Bacon, sweet-pickled, smoked. 560 Bacon, sweet-pickled, smoked. 561 Bacon, sweet-pickled, smoked. 562 Ber forgue, canned. 563 Bacon, canned. 564 Hearts, beef. 565 Cace 565 Cace 565 Cace 566 Cace 567 Sugar, see-press. 567 Accomment. 568 Cace 569 Cace 569 Cace 560			Zine pletes sheets and strips			Poord bristol
Limber, Softwood, yard and ale- 534 Norly, spikes, tacks, and staples, 535 Total antifriction, ingots and castings. 536 Metal, antifriction, ingots and castings. 537 Fipe, water, centrifugally east iron. 538 Receptacles, waste-paper, fiber, office and lobby. 539 Character, spikes, facks, and staples, 530 Total antifriction, ingots and castings. 530 Paper, drawing, 531 Paper, drawing, 532 Paper, drawing, 533 Paper, tracing, 534 Paper, tracing, 535 Paper, drawing, 536 Paper, drawing, 537 Paper, drawing, 538 Receptacles, waste-paper, fiber, office and lobby. 539 Character, 539 Character, 530 Character, 530 Character, 530 Character, 541 Goggles, for protection against flying particles and chips. 542 Goggles, for protection against flying particles and chips. 544 Helmets, welders'. 545 Character, 546 Masks, babliting, 547 Sheleds, welders'. 548 Bolts, nust, and machine screws. 549 Steel plates, marine boiler. 540 Steel, stay bolt, boiler. 541 Laundry appliances. 542 Steel plates, marine boiler. 543 Shade cloth (See F. S. No.367 b.) 544 Sheleds, welders'. 545 Shade cloth (See F. S. No.367 b.) 546 Cace 547 Cace 548 Masks, babases for plaster and 549 Steel plates, marine boiler. 540 Steel, stay bolt, boiler. 541 Laundry appliances. 542 Bronze, manganese, rods, bars, 544 Metal bases for plaster and 545 Almed Laundry appliances. 546 Cace 547 Cace 558 Shade cloth (See F. S. No.367 b.) 559 Cace 560 Cace 561 Drill (unbleached), 562 Ber forgue, canned. 563 Bacon, canned. 564 Hearts, beef. 565 Cace 565 Cace 565 Cace 565 Cace 566 Liver, beef. 567 Accomment. 568 Drill connect. 569 Sugar, see-picked, smoked. 569 Bacon, sweet-pickled, smoked. 560 Bacon, sweet-pickled, smoked. 561 Bacon, sweet-pickled, smoked. 562 Ber forgue, canned. 563 Bacon, canned. 564 Hearts, beef. 565 Cace 565 Cace 565 Cace 566 Cace 567 Sugar, see-press. 567 Accomment. 568 Cace 569 Cace 569 Cace 560			Zinc plates, sheets, and strips.			Doard, Distoi.
Lumber, Soltwood, yard and lactors of the property of the prop			wire, spring, phosphor-bronze.			Board, mustrating.
Nails, spikes, tacks, and staples 535	533a		Lumber, softwood, yard and fac-			Cloth, tracing.
Nails, spikes, tacks, and staples 535			tory.	592		Cloth, tracing, printed.
Signature Pipe fittings, malleable iron (threaded) (150-16), gots and (threaded)	534		Nails, spikes, tacks, and staples.	593		Instruments, drawing first-grade
t(threaded) (150-1b.). Metal, antifriction, ingots and castings. Pipe, water, centrifugally cast iron. Receptacles, waste-paper, fiber, office and lobby. Gorgles and lobby. Gorgles, for protection against flying particles and chips. Gorgles, rubber frame. Helmets, welders'. Hel	535		Pipe fittings, malleable iron			in sets).
Castings	0.00			594		Paper detail drawing
cistings. 7	526					Popor drowing
Pipe, water, centrifugally east iron. Faster, drawing, ruled. 597	990		Metal, antilifiction, ingots and			Paper, drawing.
Fig.	FO.77					Paper, drawing, printed.
1	537		Pipe, water, centrifugally cast			Paper, drawing, ruled.
Second			iron.	598		Paper, tracing.
Office and lobby. Erasers, steel. Office and lobby. Erasers, steel. Office and lobby. Office a	538					Straightedges.
Erasers, steel. 601			office and lobby			
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bobbinet). Goggles, for protection against flying particles and chips. Goggles, rubber frame. Goggles, rubber frame. Goggles, welders'. Helmets, welders'. Masks, babbitting. Helmets, sandblasting. Helmets, sanded. Helmets, sandblasting. Helmets, sanded. Helmets, sandblasting. Helmets, sanded. Helme			Natting magazita (T Hallgles.
Goggles, tor protection against friging particles and chips. Goggles, rubber frame. Goggles, welders'. Gora Peaches, canned. Cherries, canned. Cooles, water. Class Children Cherries, canned. Cherries, canned. Cooles, water. Class Children Cherries, canned. Cherries, canned. Cooles, water. Class Cherries, canned. Cooles, water. Caster, space, canned. Cooles, water. Caster, canned. Corn, canned. Corn	540a					1 -squares.
Goggles, tor protection against friging particles and chips. Goggles, rubber frame. Goggles, welders'. Gora Peaches, canned. Cherries, canned. Cooles, water. Class Children Cherries, canned. Cherries, canned. Cooles, water. Class Children Cherries, canned. Cherries, canned. Cooles, water. Class Cherries, canned. Cooles, water. Caster, space, canned. Cooles, water. Caster, canned. Corn, canned. Corn				603b		Lard substitutes.
Trying particles and carps. Ocea Apricols, canned.	541		Goggles, for protection against	604a		Apples, canned.
542			flying particles and chips.	605a		Apricots, canned.
Goggies, weiders'. 444 Helmets, weiders'. 455 Masks, babbitting. 457 Shields, welders' hand. 458 Bolts, nuts, and machine screws. 459 Steel plates, marine boiler. 450 Steel, stay bolt, boiler. 451 Laundry appliances. 452 Bronze, manganese, rods, bars, shapes, and plates. 455 The Laundry appliances. 456 Abdeeloth. (See F. S. No. 367 b.) 457 Casting and graine boiler. 458 Bolts, and plates. 458 Bronze, manganese, rods, bars, shapes, and plates. 459 Bronze, manganese, rods, bars, shapes, and plates. 450 Casta Bronze, manganese, rods, bars, shapes, and plates. 450 Casta Bronze, manganese, rods, bars, shapes, and plates. 450 Casta Drill (unbleached). 450 Casta Drill (unbleached). 450 Bacon, canned. 450	542			6069		Cherries, canned
544 Helmets, welders'. 608a Pears, canned. 546 Masks, babbitting. 609a Pineapple, canned. 547 Shields, welders' hand. 610a Prunes, canned. 548 Bolts, nuts, and machine screws. 611 Bunting, cotton. 549 Steel plates, marine boiler. 613 Flannel, canton. 550 Steel, stay bolt, boiler. 613 Flannel, canton. 551 Laundry appliances. 615 Hicking, mattress and pillow. 552 Bronze, manganese, rods, bars, shapes, and plates. 616 17 icking, mattress and pillow. 553 Marcia bases for plaster and stuce construction. 618 Hamps, electric, incandescen miniature, tungsten filamen stuce construction. 554a Muclage. Shade cloth. (See F. S. No.367 b.) 620 Bedspreads, crinkle. 555a C367 Drill (unbleached). 622a Gasoline, motor, United Stat Governel, anned. 567a C369 Pricale, eanned. 622a Beef tongue, canned. 560a Beef tongue, canned. 625a Beeas, string, canned.				6079		Panahas cannad
Masks, babbitting. Global Hellmets, sandblasting. Hellmets, sandblasting. Shields, welders' hand. Hellmets, sandblasting. Hellmets, sand			Talmeta meldena!	6080		Dears commed.
Helmets, sandnissting. 547 Shields, welders' hand. 548 Bolts, nuts, and machine screws. 549 Steel plates, marine boiler. 550 Steel, stay bolt, boiler. 551 Laundry appliances. 552 Bronze, manganese, rods, bars, shapes, and plates. 553 (Metal bases for plaster and stucco construction. 554 Steel stay bolt, boiler. 555 Bronze, manganese, rods, bars, shapes, and plates. 556 Steel stay bolt, boiler. 557 Cafel steel st			neimers, weiders.	0004		rears, canned.
Helmets, sandnissting. 547 Shields, welders' hand. 548 Bolts, nuts, and machine screws. 549 Steel plates, marine boiler. 550 Steel, stay bolt, boiler. 551 Laundry appliances. 552 Bronze, manganese, rods, bars, shapes, and plates. 553 (Metal bases for plaster and stucco construction. 554 Steel stay bolt, boiler. 555 Bronze, manganese, rods, bars, shapes, and plates. 556 Steel stay bolt, boiler. 557 Cafel steel st			Masks, babbitting.	609a		Pineappie, canned.
547 Shields, welders' hand. 548 Bolts, nuts, and machine screws. 549 Steel plates, marine boiler. 550 Steel, stay both, boiler. 551 Laundry appliances. 552 Bronze, manganese, rods, bars, shapes, and plates. 553 †Metal bases for plaster and stucce construction. 554 Mutiage. 555 C369 Flouring phosphate, technical (phosphate cleaner). 556 C370 Trill (unbleached). 5570 C389 Trisodium phosphate, technical (phosphate cleaner). 5580 Beach, canned. 5580 Beach, canned. 5581 Beach, canned. 5582 Gason, sweet-pickled, smoked. 5583 Beef, dried, sliced, canned. 5584 Head cheese. 5693 Hams, sweet-pickled, smoked. 5694 Hearts, beef. 5695 Luncheon meat. 5708 Mutton. 5708 Mutton. 5718 Pork. 5720 Veal. 5738 Sausage, pork. 5740 Sausage, frankfurter-style. 5755 Sausage, Vienna-style, canned. 5760 Sausage, Vienna-style, canned. 5770 Acetone. 581 †Ties, bicycle, single tube and clincher. 582 Paper, garnet, waterproof. 583 Paper, garnet, waterproof. 584 †Tr o w e ls, plastering, coment, brick, and pointing, 585 Copper nickel alloy rods, bars, shapes, plates, sheets, and 5610 Chocolate.			Helmets, sandblasting.	610a		Prunes, canned.
Steel plates, marine boiler. Steel plates, marine boiler. Steel stay bolt, boiler. Steel, stay bolt, boiler. Steel, stay bolt, boiler. Steel, stay bolt, boiler. Steel stay bolt, boiler. Steel plates, marine boiler. Steel plates. Steel pla	547		Shields, welders' hand.	611		Bunting, cotton.
549 Steel plates, marine boiler. 614 Flannel, canton. 551 Steel, stay both, boiler. 614 Jeans, bleached. 551 Laundry appliances. 615a Troke, manganese, rods, bars, shapes, and plates. 552 Bronze, manganese, rods, bars, shapes, and plates. 616 Towels, glass, cotton. 553 Mucilage. Lamps, electric, incandescen minature, tungsten filamen stucce construction. Lamps, electric, incandescen minature, tungsten filamen diene. 554 Casor Drill (unbleached). 62a Beef. Bed. Bed. Bed. Apple sauce. Gasoline, motor, United Stat Government.	548		Bolts, nuts, and machine screws,	612		Cloth, bird's-eye (diaper).
Steel, stay bolt, boiler. Steel, stay bolt, stay bolt, boiler. Steel, stay bolt,			Steel plates marine boiler			Flannel center
551			Cteel ster helt heiler			
Bronze, manganese, rods, bars, shapes, and plates. 1Metal bases for plaster and stuco construction. Mucilage. 553			Steel, Stay bolt, boller.			Jeans, Dieached.
Bronze, manganese, rods, bars, shapes, and plates. 1Metal bases for plaster and stuco construction. Mucilage. 553			Laundry appliances.	615a		Tricking, mattress and pillow.
shapes, and plates. Shapes, and plates. Shapes, and plates. Shapes, and plates. Shapes, and plates. Shapes, and plates. Shapes, and plates. Shapes, and plates. Shapes, and plates. Shapes, and plates. Shapes, and plates. Shapes, and plates. Shapes, and plates. Shapes, and plates. Shapes, and strucc construction. Shapes, plates, strucc, and strucc, construction. Shapes, plates, sheets, and strucc, tungsten filamen minature, tungsten filamen minature, tungsten filamen minature, tungsten filamen med. Beef. Cool	552		Bronze, manganese, rods, bars,			Towels, glass, cotton.
Mucilage. Shade cloth. (See F. S. No. 367 b.) Gas Case Shade cloth. (See F. S. No. 367 b.) Gas Case			shapes, and plates.	617		Coolers, water.
Stuce construction	553		tMetal bases for plaster and	618		†Lamps, electric, incandescent,
Mucilage			stucco construction			
S55b C364	5549	,		6100		
Cornigate Cleanery Corniga		0204				
Cornigate Cleanery Corniga	9990	C304				
Cornigate Cleanery Corniga		C366		621a		
Cornigate Cleanery Corniga		C367	Drill (unbleached).	622a		Gasoline, motor, United States
Cornigate Cleanery Corniga	557	C369	Trisodium phosphate, technical			
559a	558		(phosphate cleaner).	623	1	
Bacon, weter-picked, sinisted. Sola	559a		Boson conned			Agnorogue gannod
Beef, corned, canned.	5609		Rocen sweet-nickled emeked	6250		Boone etring conned
562a Beef tongue, canned. 667a Corn, canned. 565a Beef, dried, sliced, canned. 628a Peas, canned. 565a Head cheese. 630a Sauerkaut, canned. 566a Hearts, beef. 631a Spinach, canned. 567a Kidneys, beef. 632a Tomatoes, canned. 569a Liuncheon meat. 635a Towels, crash, mixed linen ar cotton. 570a Mutton. 635a Towels, crash, mixed linen ar cotton. 571a Pork. 635a Brievils, dried (evaporated). 571a Pork. 635a Brievils, pearl. 572a Veal. 635a Brievils, pearl. 572a Veal. 635a Brievils, dried (evaporated). 573a Sausage, pork. 635a Brievils, pearl. 575a Sausage, bologna-style. 638a Cornstarch. 576b Sausage, vienna-style, canned. 640a Flour, wheat. 577 Acetone. 641a Flour, wheat. 579b Sugar.	000a		Dacon, Sweet-pickied, Smoked.			Deats, sume, callied.
1902	5018		Deel, corned, canned.	0208		Deers, canned.
Beet, dried, sliced, canned. 628a Feas, canned. 630a 63	50.2a		Beet tongue, canned.	62/a		Corn, canned.
564a Head cheese. 629a Pumpkin, canned. 565a Hams, sweet-pickled, smoked. 630a Sauerkraut, canned. 567a Kidneys, beef. 631a Spinach, canned. 567a Liver, beef. 633a Towels, crash, mixed linen ar cotton. 569a Luncheon meat. 635a Towels, crash, mixed linen ar cotton. 570a Mutton. 635a Jams. 571a Pork. 635a Biscuit. 572a Veal. 635a Briev, peerl. 573a Sausage, pork. 635a Briev, peerl. 575b Sausage, bologna-style. 638a Cornstarch. 576b Sausage, Vienna-style, canned. 640a Crackers, soda. 577 Acetone. 642a Flour, wheat. 578 Castings, copper, nickel alloy. 642a Flour, wheat. 580 Unions, 360-pound malleable iron or steel. 643a Hominy, real and (whole wheme) 581 †Tires, bicycle, single tube and clincher. 645a 645a Hominy, re, canned.	oosa		Beef, dried, sliced, canned.	628a		Peas, canned.
565a Hams, sweet-pickled, smoked. 630a Sauerkraut, canned. 566a Hearts, beef. 631a Spinach, canned. 567a Kidneys, beef. 632a Tomatoes, canned. 568a Liver, beef. 632a Tomatoes, canned. 569a Luncheon meat. 7643a Towels, crash, mixed linen ar cotton. 570a Mutton. 635a Truits, dried (evaporated). 571a Pork. 635a Jams. 572a Veal. 635a Barley, pearl. 572a Sussage, pork. 638a Cornstard. 575a Sausage, bologna-style. 638a Cornstarch. 576b Sausage, copper, nickel alloy. 640a Crackers, soda. 577 Castings, copper, nickel alloy. 642a Flour, wheat. 579b Sugar. 642a Flour, wheat. 581 Tires, bicycle, single tube and clincher. 644a Hominy grits and hominy grit coarse. 582 Paper, garnet, waterproof. 648a Spaghetti, macaroni, and verm coarse. <	564a		Head cheese.	629a		Pumpkin, canned.
Hearts, beef. 631a 567a Kidneys, beef. 632a Tomatoes, canned. Towels, crash, mixed linen are cotton. Towels,	565a		Hams, sweet-pickled, smoked.	630a		Sauerkraut, canned.
567a	566a		Hearts, beef.	6319		Spinach, canned
508a Liver, beef. 509a Luncheon meat. 570a Mutton. 571a Pork. 571a Veal. 572a Veal. 573a Sausage, pork. 574b Sausage, frankfurter-style. 575b Sausage, vienna-style, canned. 577 Acetone. 578 Castings, copper, nickel alloy. 579b Sugar. 580 Unions, 300-pound malleable iron or steel. 581 †Tires, bicycle, single tube and clincher. 582 Paper, garnet, waterproof. 583 Paper, garnet, waterproof. 584 Trowels, grash, mixed linen are cotton. 577 Gasa Gasa Barley, pearl. 685a Gasa Gasa Cornmeal (white or yellow). 677 Cornstarch. 678a Gasa Cornmeal (white or yellow). 679b Sugar. 640a Gasa Flour, brokwheat. 642a Flour, brokwheat. 643a Flour, graham (whole wheme). 644a Hominy grits and hominy grit coarse. 645a Gasa Coarse. 646a Hominy grits and hominy grit coarse. 647a Gasa Hominy, lye, canned. 648a Spaghetti, macaroni, and verm celli. 649b Cocoa. 649b Cocoa. 640c Crackers, soda. 641a Flour, brokwheat. 645a Hominy grits and hominy grit coarse. 646a Gasa Cocoa. 647a Gasa Cocoa. 648a Spaghetti, macaroni, and verm celli. 649b Cocoa. 649b Cocoa. 640c Crackers, soda. 640a Gasa Cocoa. 640a Gasa Coco	5679		Kidneys heef	6329		Tomotoes conned
Difference on meat. Four content c	5680		Tivor boof	699		Townsh and lines and
570a Mutton. 571a Pork. 572a Veal. 573a Sausage, pork. 575b Sausage, frankfurter-style. 575a Sausage, blogna-style. 575b Sausage, Vienna-style, canned. 577 Acetone. 578 Castings, copper, nickel alloy. 579 Sugar. 579b Sugar. 580 Unions, 360-pound malleable iron or steel. 581 †Tires, bicycle, single tube and clincher. 582 Paper, garnet, waterproof. 583 Paper, garnet, waterproof. 584 Tr o w el s, plastering, cement, brick, and pointing. 585 Copper nickel alloy rods, bars, shapes, plates, sheets, and solve the state of the	5600		Tarmahaan maaat	000		
Mutton. Fruits, dried (evaporated). Gasta Jams. Gasta Ja	509a		Lilingneon meat.	1		
Fork Fork Street Stree	570a		Mutton.	7643a		Fruits, dried (evaporated).
574b Sausage, pork. 574b Sausage, frankfurter-style. 575a Sausage, bologna-style. 576b Sausage, Vienna-style, canned. 577 Acetone. 578 Castings, copper, nickel alloy. 589 Unions, 300-pound malleable iron or steel. 581 †Tires, bicycle, single tube and clincher. 582 Paper, garnet, waterproof. 583 Paper, garnet, waterproof. 584 T r o w el s, plastering, cement, brick, and pointing. 585 Copper nickel alloy rods, bars, shapes, plates, sheets, and 561b Chocolate.	571a		Pork.	635a		Jams.
574b Sausage, pork. 574b Sausage, frankfurter-style. 575a Sausage, bologna-style. 576b Sausage, Vienna-style, canned. 577 Acetone. 578 Castings, copper, nickel alloy. 589 Unions, 300-pound malleable iron or steel. 581 †Tires, bicycle, single tube and clincher. 582 Paper, garnet, waterproof. 583 Paper, garnet, waterproof. 584 T r o w el s, plastering, cement, brick, and pointing. 585 Copper nickel alloy rods, bars, shapes, plates, sheets, and 561b Chocolate.	572a		Veal.	636a		Barley, pearl.
579b Sugar. 643a Flour, graham (whole whence of the coarse.) 581 times, bicycle, single tube and clincher. 582 Paper, abrasive, artificial, waterproof. 583 Paper, garnet, waterproof. 584 Trowels, platering, cement, brick, and pointing. 585 Copper nickel alloy rods, bars, shapes, plates, sheets, and sheets and solve the meally. 644a Hominy grits and hominy grit coarse. 645a Hominy, graham (whole whence meally. 645a Hominy, grits and hominy grit coarse. 646a Hominy, lye, canned. 848a Spaghetti, macaroni, and verm celli. 7585 Cocoa. 649b Cocoa. 649b Cocoa. 649b Cocoa. 649b Cocoa. 649b Cocoa. 649b Cocoa.	573a		Sausage, pork,	6379		Biscuit.
579b Sugar. 643a Flour, graham (whole whence of the coarse.) 581 times, bicycle, single tube and clincher. 582 Paper, abrasive, artificial, waterproof. 583 Paper, garnet, waterproof. 584 Trowels, platering, cement, brick, and pointing. 585 Copper nickel alloy rods, bars, shapes, plates, sheets, and sheets and solve the meally. 644a Hominy grits and hominy grit coarse. 645a Hominy, graham (whole whence meally. 645a Hominy, grits and hominy grit coarse. 646a Hominy, lye, canned. 848a Spaghetti, macaroni, and verm celli. 7585 Cocoa. 649b Cocoa. 649b Cocoa. 649b Cocoa. 649b Cocoa. 649b Cocoa. 649b Cocoa.	574h		Sausage frankfurter-style	6380		Cornmeal (white or vellow)
579b Sugar. 643a Flour, graham (whole whence of the coarse.) 581 times, bicycle, single tube and clincher. 582 Paper, abrasive, artificial, waterproof. 583 Paper, garnet, waterproof. 584 Trowels, platering, cement, brick, and pointing. 585 Copper nickel alloy rods, bars, shapes, plates, sheets, and sheets and solve the meally. 644a Hominy grits and hominy grit coarse. 645a Hominy, graham (whole whence meally. 645a Hominy, grits and hominy grit coarse. 646a Hominy, lye, canned. 848a Spaghetti, macaroni, and verm celli. 7585 Cocoa. 649b Cocoa. 649b Cocoa. 649b Cocoa. 649b Cocoa. 649b Cocoa. 649b Cocoa.	5759		Coursega hologno-ctyle	6200		Cornetorah
579b Sugar. 643a Flour, graham (whole whence of the coarse.) 581 times, bicycle, single tube and clincher. 582 Paper, abrasive, artificial, waterproof. 583 Paper, garnet, waterproof. 584 Trowels, platering, cement, brick, and pointing. 585 Copper nickel alloy rods, bars, shapes, plates, sheets, and sheets and solve the meally. 644a Hominy grits and hominy grit coarse. 645a Hominy, graham (whole whence meally. 645a Hominy, grits and hominy grit coarse. 646a Hominy, lye, canned. 848a Spaghetti, macaroni, and verm celli. 7585 Cocoa. 649b Cocoa. 649b Cocoa. 649b Cocoa. 649b Cocoa. 649b Cocoa. 649b Cocoa.	Frei		Carrage Vienna -t-1-	0098		Cornstatui.
579b Sugar. Castness, copper, interest and. 581 Unions, 360-pound malleable iron or steel. 581 †Tires, bicycle, single tube and clincher. 582 Paper, abrasive, artificial, waterproof. 583 Paper, garnet, waterproof. 584 Trowells, plastering, coment, brick, and pointing. 585 Copper nickel alloy rods, bars, shapes, plates, sheets, and sheets and several contents. 586 Sugar. 642a Flour, graham (whole where meal). 645a Hominy grits and hominy grit coarse. 646a Hominy, lye, canned. 647a 648a Spaghetti, macaroni, and verm celli. 75a Cocoa. 645b Cocoa. 645c Cocoa. 645c Cocoa. 645c Cocoa. 645d Cocoa.	9700		bausage, vienna-style, canned.	640a		Crackers, soda.
579b Sugar. Castness, copper, interest and. 581 Unions, 360-pound malleable iron or steel. 581 †Tires, bicycle, single tube and clincher. 582 Paper, abrasive, artificial, waterproof. 583 Paper, garnet, waterproof. 584 Trowells, plastering, coment, brick, and pointing. 585 Copper nickel alloy rods, bars, shapes, plates, sheets, and sheets and several contents. 586 Sugar. 642a Flour, graham (whole where meal). 645a Hominy grits and hominy grit coarse. 646a Hominy, lye, canned. 647a 648a Spaghetti, macaroni, and verm celli. 75a Cocoa. 645b Cocoa. 645c Cocoa. 645c Cocoa. 645c Cocoa. 645d Cocoa.	577		Acetone.	641a		Flour, wheat.
580 Sugar. 580 Unions, 300-pound malleable iron or steel. 581 †Tires, bieycle, single tube and clincher. 582 Paper, abrasive, artificial, waterproof. 583 Paper, garnet, waterproof. 584 Trowels, plastering, cement, brick, and pointing. 585 Copper nickel alloy rods, bars, shapes, plates, sheets, and special	010		Castings, copper, micker andy.	642a		Flour, buckwheat.
581 Unions, 360-pound malleable iron or steel. 581 'Tires, bicycle, single tube and clincher. 582 Paper, abrasive, artificial, waterproof. 583 Paper, garnet, waterproof. 584 Trowels, plastering, cement, brick, and pointing. 585 Copper nickel alloy rods, bars, shapes, plates, sheets, and sheets	579b		Sugar.	643a		Flour, graham (whole wheat
or steel. †Tires, bicycle, single tube and clincher. Paper, abrasive, artificial, waterproof. 583 Paper, garnet, waterproof. 584 Trowels, plastering, cement, brick, and pointing. 585 Copper nickel alloy rods, bars, shapes, plates, sheets, and shapes, pl	580		Unions, 300-pound malleable iron	0.200		meal).
581 — Tires, bicycle, single tube and clincher. 582 — Paper, abrasive, artificial, waterproof. 583 — Paper, garnet, waterproof. 584 — Trowels, plastering, cement, brick, and pointing. 585 — Copper nickel alloy rods, bars, shapes, plates, sheets, and sheets,	,,,,			6440		Taninea
clincher. Paper, abrasive, artificial, waterproof. 583 proof. Paper, garnet, waterproof. 584 Trowels, plastering, cement, brick, and pointing. 585 Copper nickel alloy rods, bars, shapes, plates, sheets, and shapes, plates, she	581		tring higgels single tube and			Haminy crits and haminy crits
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583 proof. Apper, garnet, waterproof. 584 Trowels, plastering, cement, brick, and pointing. 585 Copper nickel alloy rods, bars, shapes, plates, sheets, and sheets	= 0.0					
583 proof. Paper, garnet, waterproof. S84 Trowels, plastering, cement, brick, and pointing. Copper nickel alloy rods, bars, shapes, plates, sheets, and sheets, an	582		Paper, abrasive, artificial, water-			Hominy, Iye, canned.
583 — Paper, garnet, waterproof. 584 — T r o w el s, plastering, cement, brick, and pointing. 585 — Copper nickel alloy rods, bars, shapes, plates, sheets, and 586 — Spaghetti, macaroni, and veru 649b — Tea. 600b — Cocoa. 600b — Chocolate.			proof.	647a		Rice.
584 Trowels, plastering, cement, brick, and pointing. 585 Cocoa. Shapes, plates, sheets, and 651b Chocolate.	583		Paper garnet waterproof			Spaghetti, macaroni, and vermi-
brick, and pointing. Copper nickel alloy rods, bars, shapes, plates, sheets, and color chocolate.			Trowels, plastering cament	0104		
585 Copper nickel alloy rods, bars, shapes, plates, sheets, and strips strips.	501		briek and pointing	6401		Too
copper nicket anoy rous, pars, 650b Cocoa. shapes, plates, sheets, and 651b Chocolate.	FOF		Copper midral client			Constant
snapes, plates, sneets, and 651b Chocolate.	999		Copper nicker alloy rods, bars,			
string		1	snapes, plates, sneets, and	6516		Chocolate.
outpo.			strips.			

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[†] Printed, see p. (II) as to procurement.

A DIRECTORY OF LABORATORIES

COMMERCIAL TESTING AND COLLEGE RESEARCH

IN 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 hestitated 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

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 remittence 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).

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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).

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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 The book tells not only what specifications are in general use, but Commerce. 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 com-

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	Approximat number of specification
000	Animal and animal products	350	1,600
100	Vegetable food products, oil, seeds, expressed oil, and bev-		
	erages	525	2, 100
200	Other vegetable products (except fibers and wood)	400	800
300 400	Wood and paper	275	1,900
500	Nonmetallic minerals	625 725	3, 300 3, 300
600	Ores, metals, and manufactures (except machinery and	120	0, 000
000	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 and Directory. ment 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 prince making the total \$1.67. Mexico and Canada), add one-third to the price, making the total \$1.67.