

Revised to November 7, 1945

STANDARDS AND SPECIFICATIONS
FOR BUILDING AND CONSTRUCTION MATERIALS,
FIXTURES, SUPPLIES, AND EQUIPMENT

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GENERAL INFORMATION

Commercial Standards, Simplified Practice Recommendations, Federal Specifications, and Bureau publications for building and construction materials, fixtures, supplies, and equipment are listed herein; and where the price is stated the publication can be obtained from the Superintendent of Documents, Government Printing Office, Washington 25, D. C. Publications marked "Free" may be obtained without charge from the National Bureau of Standards, Washington 25, D. C. Federal Specifications are priced at 5 cents per copy except where otherwise indicated. The prices quoted are for delivery to addresses in the United States and its territories and possessions and in certain foreign countries which extend the franking privilege. In the case of all other countries, one-third the cost of the publication should be added to cover postage. Remittances should be made either by coupons (obtainable from the Superintendent of Documents in sets of 20 for \$1.00 and good until used), or by check or money order payable to the "Superintendent of Documents, Government Printing Office" and sent to him with order.

In the list of Federal Specifications beginning on page 5 asterisks are shown in front of certain specification symbols. These asterisks mean that lists of firms have been compiled from which products that are guaranteed to conform to the specifications may be bought. These lists are free upon request to the National Bureau of Standards.

An index of current Federal Specifications indicating the status of the specifications and showing the price of printed copies, has been published as Section IV, Part 1 of the Federal Standard Stock Catalog. Copies of this index may be purchased from the Superintendent of Documents, at 25 cents per copy.

Publications marked "OP" are out of print but usually may be consulted in technical libraries.

Series letters with serial numbers are used to designate Bureau publications:

BH = Building and Housing publication	CS = Commercial Standard
BMS = Building Materials and Structures Reports	LC = Letter Circular
	M = Miscellaneous Publication
C = Circular	R = Simplified Practice Recommendation

COMMERCIAL STANDARDS

<u>Title</u>	<u>Series</u>	<u>Price</u>
Blinds; venetian; wood-slat.....	CS 61-37	5¢
Board; structural fiber insulating (third edition).....	CS 42-43	5¢
Burners, oil, mechanical-draft, automatic (second edition).	CS 75-42	10¢
Burners, domestic, (underfeed type) (for) Pennsylvania anthracite (second edition).....	CS 48-40	5¢
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Colors and finishes for cast stone.....	CS 53-35	5¢
Colors for bathroom accessories.....	CS 63-38	5¢
Colors for kitchen accessories.....	CS 62-38	5¢
Colors for sanitary ware.....	CS 30-31	OP
Commercial standards and their value to business (third edition).....	CS 0-40	Free
Compressors, air, tank-mounted.....	CS 126-45	10¢
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Doors; (entrance) factory fitted Douglas fir.....	CS 91-41	5¢
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Furnaces, oil-burning, floor (equipped with vaporizing pot-type burners).....	CS 113-44	10¢
Furnaces, warm-air (equipped with oil-burners, vaporizing, pot-type).....	(E) CS 104-43	10¢
Hardware, builders' (nontemplate) (second edition).....	CS 22-40	10¢
Hardware, builders' (template) (second edition).....	CS 9-33	5¢
Heaters (space); oil burning, flue-connected (with vaporizing-pot-type burners).....	CS 101-43	10¢
Homes; prefabricated.....	CS 125-45	5¢
Lining, closet, red cedar (aromatic).....	CS 26-30	OP
Lumber, hardwood dimension.....	CS 60-36	10¢
Lumber, tank stock; cedar, cypress and redwood.....	CS 92-41	5¢
Mirrors (second edition).....	CS 27-36	5¢

Commercial Standards - cont.

<u>Title</u>	<u>Series</u>	<u>Price</u>
Nipples, pipe; brass, copper, steel, and wrought iron (revision and consolidation of CS 5-29, CS 6-31, and CS 10-29).....	CS 5-40	5¢
Paneling, solid hardwood wall.....	CS 74-39	5¢
Pipe, bituminized-fiber; drain and sewer.....	CS 116-44	5¢
Pipe; lead.....	CS 95-41	5¢
Plumbing fixtures; cast-ironware, enameled sanitary.....	CS 77-40	5¢
Plumbing fixtures, earthenware (vitreous-glazed).....	CS 111-43	5¢
Plumbing fixtures, staple porcelain (all-clay).....	CS 4-29	OP
Plumbing fixtures, staple vitreous china (third edition)...	CS 20-42	10¢
Plywood, Douglas fir (sixth edition).....	CS 45-45	10¢
Plywood (hardwood and eastern red cedar (second edition)...	CS 35-42	10¢
Plywood; hemlock, western.....	CS 122-45	5¢
Refrigeration-condensing units; electric, commercial (second edition).....	CS 107-45	10¢
Seats for water-closet bowls, staple.....	CS 29-31	OP
Shingles, wood (fourth edition).....	CS 31-38	5¢
Stair treads and risers, hardwood.....	CS 89-40	5¢
Tents, cotton fabric, tarpaulins and covers.....	CS 28-32	OP
Traps and bends; lead.....	CS 96-41	5¢
Trim and molding; hardwood interior.....	CS 76-39	5¢
Unions, standard weight, malleable iron or steel screwed...	CS 7-29	OP
Veneers, walnut.....	CS 64-37	5¢
Wall paper.....	CS 16-29	5¢
Wallboard; fiber, homogeneous.....	CS 112-43	5¢
Wool; mineral, blankets, blocks, insulating cement, and pipe insulation for heated industrial equipment.....	CS 117-44	10¢
Wool; mineral, loose, granulated or felted form, in low- temperature installations.....	CS 105-43	5¢

While the supply lasts, mimeographed copies of the above Commercial Standards are available without charge from the Division of Trade Standards, National Bureau of Standards, Washington 25, D. C.

SIMPLIFIED PRACTICE RECOMMENDATIONS

<u>Title</u>	<u>Series</u>	<u>Price</u>
Aggregates, coarse (crushed stone, gravel and slag).....	R 163-39	5¢
Asbestos paper; and asbestos millboard.....	R 19-37	5¢
Asphalt.....	R 4-36	5¢
Asphalt roll roofing and asphalt-and-tar-saturated felt products.....	R 213-45	5¢
Bars, steel, reinforcing.....	R 26-42	5¢
Boilers, range; and expansion tanks.....	R 8-42	5¢
Boilers, range (non-ferrous).....	R 181-41	5¢
Boilers, steel, heating, horizontal firebox.....	R 157-37	5¢
Brick, common, and rough and smooth face brick.....	R 7	5¢
Brick, paving, vitrified.....	R 1-40	5¢
Brick, sand-lime.....	R 38-37	5¢
Clay sewer pipe and fittings (mimeog).....	R 211-45	Free
Concrete units, building.....	R 32-38	5¢
Conductors, copper; (for building purposes) (mimeog).....	R 180-41	Free
Doors, hollow metal single acting swing; frames and trim....	R 82-28	5¢
Doors, kalamein, single acting swing; frames and trim.....	R 83-28	5¢
Eaves trough, conductor pipe, and fittings, and ridge rolls.	R 29-42	5¢
Fencing, woven-wire; and woven-wire fence packages.....	R 9-28	5¢
Fittings, pipe, (grey cast iron, malleable iron and brass or bronze) (mimeog).....	R 185-42	Free
Fittings, pipes and ducts for warm-air heating and air conditioning.....	R 207-45	10¢
Fittings, solder-joint, cast brass (mimeog).....	R 212-45	Free
Forms for concrete joist construction floors.....	R 87-32	5¢
Hardware, builders (nontemplate)(Standards for Builders Hardware are set forth in Commercial Standard CS22-40).	R 18	5¢
Insulating-board, structural (vegetable fiber).....	R 179-42	5¢
Joists, steel, open web.....	R 94-30	5¢
Lath, metal (expanded and sheet) and metal plastering accessories.....	R 3-44	5¢
Lights; sidewalk, floor, and roof.....	R 49	5¢
Lumber, softwood (includes shingles and mouldings).....	R 16-39	20¢
Nails, wire, copper.....	R 150-34	5¢
Paints, varnishes, and related products (colors and containers).....	R 144-43	5¢
Partitions, metal; for toilets and showers.....	R 101-40	5¢
Pipe, wrought-iron and wrought-steel; and valves and fittings	R 57-32	5¢
Plumbing fixtures, hospital.....	R 106-41	5¢
Plumbing fixtures, staple vitreous china (included in Commercial Standard CS20-42).....	R 52	5¢
Radiators, cast-iron (mimeog).....	R 174-43	Free
Refrigerator, ice compartment sizes.....	R 109-29	10¢
Roofing, iron and steel.....	R 78-28	5¢
Roofing ternes.....	R 30-42	5¢
Screen cloth, insect, wire.....	R 122-31	5¢
Shades, cloth, window.....	R 199-43	5¢
Slate, roofing (mimeog).....	R 14-28	Free
Slate, structural.....	R 13-28	10¢
Steel, sheet.....	R 28-29	10¢
Stove pipe and accessories.....	R 190-42	5¢

Simplified Practice Recommendation - cont.

<u>Title</u>	<u>Series</u>	<u>Price</u>
Tacks, cut; and small cut nails.....	R 47-28	10¢
Tanks, storage, hot water (mimeog).....	R 25	Free
Tile, building, hollow (mimeog).....	R 12	Free
Tiles, clay; for floors and walls.....	R 61-44	10¢
Traps, lavatory and sink, brass (mimeog).....	R 21	Free
Windows, steel, solid section (mimeog).....	R 72	Free
Simplified practice, its purpose and application (mimeog)..	LC 590	Free

Where no price is shown, publications are available in mimeographed form only from the Division of Simplified Practice, National Bureau of Standards, Washington 25, D. C.

FEDERAL SPECIFICATIONS

Index of Federal Specifications for Building and Construction Materials, Fixtures, Supplies, and Equipment arranged by Commodity Groups

*List of Willing-to-Certify Sources of Supply has been compiled.

	<u>Specification</u> <u>Symbol</u>
<u>ANIMAL PRODUCTS</u>	
Cushion; carpet and rug, hair-felt.....	C-C-811
Felt; hair.....	*C-F-201c
Glue; animal (for) woodworking.....	*C-G-451
Glue; casein-type, water-resistant.....	C-G-456
Glue; liquid.....	C-G-463

<u>CABLE AND WIRE</u>	
Cable, armored (including lead covered types and armored cord); 0 to 600-volt service.....	*J-C-71a
Cable, Cord, and Wire; electric, flexible, cotton-covered (general service).....	J-C-86 (10¢)
Cable and Wire; rubber-insulated, building-type (0 to 5000- volt service).....	*J-C-103 (10¢)
Cable and Wire; rubber-insulated (for) other than building- purposes, superaging-grade (0 to 8000-volt service).....	*J-C-121
Cable and Wire; varnished-cloth-insulated (0 to 5000-volt service).....	J-C-138
Cable-Units; battery and starter.....	J-C-231

<u>CANVAS-ARTICLES</u>	
Paulins and Covers; duck (Tarpaulins).....	*K-P-146

<u>CHEMICALS</u>	
Acid; hydrochloric (muriatic), technical-grade.....	*O-A-86
Calcium-Chloride; hydrated, technical-grade.....	*O-C-106a
Fire-Extinguishers; chemical, hand, carbon-tetrachloride type..	*O-F-351
Fire-Extinguishers; chemical, hand, soda-and-acid type.....	*O-F-355a
Fire-Extinguishers; hand, portable, foam-type.....	*O-F-361
Fire-Extinguishers; hand, portable, pump-tank-type.....	O-F-367
Fire-Extinguishing-Liquid; carbon-tetrachloride base.....	*O-F-380a
Flux, soldering; paste.....	O-F-506
Paste, linoleum.....	*O-P-106

<u>CLEANING AND POLISHING MATERIALS</u>	
Cloth; abrasive, aluminum-oxide.....	*P-C-451
Compound; cleaning, soap-abrasive-type (for painted surfaces)..	*P-C-565
Compound; sweeping.....	*P-C-591a
Oil, floor; mineral.....	*P-O-361
Paper; abrasive, artificial, waterproof.....	*P-P-101

CLEANING AND POLISHING MATERIALS (Cont.)

Specification
Symbol

Paper; flint.....	*P-P-111
Paper; garnet.....	*P-P-121
Paper; garnet, waterproof.....	*P-P-126
Polish; furniture, liquid.....	*P-P-552
Polish; metal.....	*P-P-556a
Powder; scouring (for) floors.....	*P-P-591
Powder; scouring (for) highly-polished glass.....	*P-P-596a
Soap-Powder.....	*P-S-606a
Soap; toilet, powdered (for) dispensers.....	*P-S-626a
Soap-Borax-Compound; toilet (for) dispensers.....	*P-S-628
Wax, floor; solvent-type liquid (with resins).....	*P-W-134
Wax, floor; water-emulsion.....	*P-W-151a
Wax, general-purpose; solvent-type, liquid and paste (for floors, furniture, etc.).....	*P-W-158

COAL AND PRODUCTS

Coke; foundry.....	*Q-C-571a
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COAL-TAR AND PRODUCTS

Naphthalene; balls and flakes.....	*R-N-91
Pitch; coal-tar (for) mineral-surfaced built-up roofing, waterproofing and dampproofing.....	*R-P-381
Tar; (for) joint filler.....	*R-T-111
Tars; (for use in) road-construction.....	*R-T-143

COOKING AND HEATING APPARATUS, FURNACES AND OVENS
(non-electric)

Forges; portable, coal-burning.....	S-F-571
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CORDAGE, TWINE, AND PRODUCTS

Cord, sash; cotton, braided.....	*T-C-571a
Mops; cotton.....	*T-M-561a

ELECTRIC-APPARATUS

Bases; cut-out (for) enclosed-cartridge, open-link, and plug-fuses.....	*W-B-81a
Batteries and Cells; dry.....	*W-B-101a
Batteries, storage; ignition, lighting and starting.....	W-B-131b
Blasting-Apparatus (Machines, blasting; galvanometers and rheostats for testing blasting circuits and machines).....	W-B-411
Boxes and Outlet-fittings, floor; (for) rigid-steel-conduit and electric-metallic-tubing (steel).....	W-B-616
Cleaners; vacuum; electric, portable.....	W-C-421a
Clock-Systems; electric.....	W-C-471a
Conduit and Fittings; asbestos-cement (for) electrical-purposes	W-C-571
Conduit and Fittings; fiber, bituminized.....	W-C-581
Connectors, wire; pressure, solderless (for electric cable and wire).....	W-C-601a

ELECTRIC-APPARATUS (Cont.)SpecificationSymbol

Drills; electric, portable (exclusive of high-frequency types).	W-D-661
Electrodes; carbon, amorphous.....	W-E-441
Fans; electric; bracket and desk types, rigid-blades (for shore use).....	W-F-101a
Fire-Alarm Systems; electric, hand-operated.....	W-F-391
Fire-Alarm Systems; electric, hand-operated, shunt-type.....	W-F-396
Fittings; cable and conduit.....	W-F-406
Flashlights; electric, hand (without batteries).....	*W-F-421a
Fuses; cartridge, inclosed, nonrenewable.....	W-F-791a
Fuses; cartridge, inclosed, renewable (fusible links not separately inclosed); and Renewable-Links therefor.....	*W-F-803a
Fuses; cartridge, inclosed, renewable (fusible links separately inclosed).....	*W-F-805
Fuses; plug, nonrenewable.....	*W-F-831
Grinders; bench, electric.....	W-G-656
Grinders; electric, portable.....	W-G-663
Heaters, electric; water, storage, domestic.....	W-H-196
Hot-Plates; electric.....	W-H-636a
Irons, soldering; electric.....	W-I-681a
Lamps; electric, incandescent, large, tungsten-filament.....	*W-L-101e
Lamps; electric, incandescent, large, tungsten-filament.....	W-L-101e 1943
Lamps; electric, incandescent, miniature, tungsten-filament....	W-L-111b
Lamps; electric, incandescent, miniature, tungsten-filament....	W-L-111b 1945
Lamp-Auxiliaries; fluorescent.....	W-L-131
Lamp-Auxiliaries; fluorescent.....	W-L-131 1942
Machines, floor-polishing and scrubbing; electric.....	W-M-46a
Outlet-Bodies; iron (cast or malleable), cadmium or zinc- coated with covers and accessories (for shore use).....	W-O-806
Outlet-Boxes; steel, cadmium or zinc-coated, with covers and accessories.....	W-O-821a
Panelboards; equipped with automatic-circuit-breakers.....	*W-P-131a
Panelboards; equipped with fuse-connections or switches and fuse-connections.....	W-P-146
Pullers; fuse.....	W-P-796
Raceways and Fittings; metallic, surface.....	W-R-32
Raceways and Fittings; metallic, underfloor.....	W-R-36
Raceways and Fittings; nonmetallic, underfloor.....	W-R-41
Ranges; electric, domestic, cabinet-type.....	W-R-101
Receptacles (convenience-outlets); attachment-plugs, current-taps, and connectors.....	*W-R-151
Switches; knife, open-type, front- and rear-connected.....	*W-S-871
Switches; snap, miscellaneous.....	W-S-890
Switches; snap, multiple-type and combination-devices, flush-type, with wall-plates.....	*W-S-893
Switches; snap, single-unit, interchangeable, flush-type with wall-plates.....	*W-S-896
Transformers; distribution, single-phase, 60-cycles (100 KV-A and below; 15,000 volts and below).....	W-T-631 (10¢)
Units, heating, electric; replacement (for water-heaters, ranges, and hot-plates).....	W-U-546
Watchmen's-Report-Apparatus.....	W-W-101

Specification

FURNITURE

Symbol

Beds; hospital.....	*AA-B-201
Beds; hospital (adjustable spring bottom).....	*AA-B-211b
Cabinets; filing, insulated, fire-resisting.....	AA-C-23
Cabinets; stationery, storage, and clothing (steel).....	*AA-C-31
Cases; transfer, steel.....	*AA-C-121
Chairs; bent-wood.....	*AA-C-281
Chairs; folding, metal.....	*AA-C-291
Chairs; office, wood.....	*AA-C-311 (10¢)
Chairs; operating, dental, motorless.....	AA-C-326
Chairs, wheel; invalid.....	AA-C-346a
Costumers; wood.....	*AA-C-556
Cots; folding, canvas.....	*AA-C-571a
Cots; folding, hospital, steel.....	AA-C-581a
Desks; steel.....	*AA-D-191
Desks; wood.....	*AA-D-201
Furniture and Cabinets; office, sectional, steel.....	*AA-F-791b (10¢)
Furniture and Cabinets; office, sectional, wood.....	*AA-F-801
Lockers; clothes, steel.....	*AA-L-486
Refrigerators; electric, portable.....	AA-R-211a
Safes; burglar-resisting.....	*AA-S-71
Safes; insulated.....	*AA-S-81a
Settees; wood.....	*AA-S-256
Shelving; steel, storage.....	*AA-S-271a
Stands; dictionary.....	*AA-S-671
Stools; foot.....	AA-S-691
Stools; wood.....	*AA-S-701 (10¢)
Tables; office, steel.....	*AA-T-91
Tables; and Typewriter-Stands, wood.....	*AA-T-101
Wardrobes; wood.....	*AA-W-131

MOTORS

Motors; alternating-current, fractional-horsepower, single-phase and universal.....	CC-M-636
Motors; alternating-current, integral-horsepower.....	CC-M-641 (10¢)

GLASS AND GLASSWARE

Chimneys and Globes (lamp and lantern); glass.....	*DD-G-311
Glass; flat (for) glazing purpose.....	*DD-G-451
Glass; flat, glazing (for) transmitting not less than 25% of ultra-violet radiation at wave length 302 millimicrons.	DD-G-476
Glasses, gage; reflex and round, tank (for pressures under 125 pounds).....	DD-G-496
Glasses, gage; round, boiler, (for pressures 125 pounds and over).....	DD-G-511

HARDWARE

Specification

Symbol

Bearings; ball.....	FF-B-171 (20¢)
Bearings; roller.....	FF-B-186 (10¢)
Bolts, lag; steel (lag-screws).....	*FF-B-561
Bolts; Nuts; Studs; and Tap-Rivets (and material for same).....	*FF-B-571a
Casters; metal-chair.....	*FF-C-81
Casters; truck.....	*FF-C-86
Casters, wood-chair.....	*FF-C-91a
Dispensers; soap.....	*FF-D-396b
Hardware, builders'; locks and lock-trim.....	*FF-H-106
Hardware, builders'; shelf and miscellaneous.....	*FF-H-111 (10¢)
Hardware, builders'; hinges.....	*FF-H-116b (10¢)
Hardware, builders'; door-closers.....	*FF-H-121a
Hardware and Fittings; (for) lavatory partitions and inclosures	*FF-H-136
Nails; Spikes; Staples; and Tacks.....	*FF-N-101 (10¢)
Padlocks.....	*FF-P-101b
Pins; cotter, split.....	*FF-P-386a
Pulleys; eye, single sheave, with attachment for balkan frame, (for) hospitals.....	FF-P-806
Screws; machine; (including Screws, set).....	*FF-S-91
Screws; wood.....	*FF-S-111
Turnbuckles.....	*FF-T-791
Wool; steel.....	*FF-W-556

INSTRUMENTS

Boards; drawing.....	GG-B-546
Clocks; pendulum (for) general purposes.....	*GG-C-451
Clocks; synchronous-motor (for) general purposes.....	*GG-C-466
Gages; pressure, (for) direct-stem-mounting.....	*GG-G-66
Gages; pressure and vacuum (for) air, ammonia, oil, steam, and water.....	*GG-G-76
Hydrometers; syringe (for lead-acid storage batteries).....	GG-H-941
Instruments; drawing, nickel-silver (first-grade).....	*GG-I-531a
Triangles; plastic, transparent.....	*GG-T-671a
T-Squares; plastic, wood, and wood-and-plastic.....	*GG-T-711b

INSULATING MATERIALS

Brick; fire-clay.....	*HH-B-671b
Brick; silica.....	*HH-B-681
Cement; silica.....	HH-C-176
Clay; fire, ground.....	*HH-C-451b
Compound; plumbing-fixture-setting.....	HH-C-536
Cork; compressed (corkboard) (for thermal insulation).....	*HH-C-561b
Cork; granulated, insulating.....	*HH-C-571a
Cork-Composition; gasket and sheet.....	HH-C-576
Cotton-Fabric; woven, asphalt-saturated.....	*HH-C-581a
Cotton-Fabric; woven, coal-tar-saturated.....	HH-C-591

INSULATING MATERIALS (Cont.)SpecificationSymbol

Felt; asphalt-saturated (for) flashings, roofing, and waterproofing.....	*HH-F-191a
Felt; coal-tar-saturated (for) roofing and waterproofing.....	*HH-F-201
Filler, expansion-joint, preformed; nonextruding-bituminous-fiber-type (for concrete).....	HH-F-334
Filler, expansion-joint, preformed; nonextruding and resilient-types (for concrete).....	HH-F-341
Gaskets; asbestos-copper, corrugated.....	*HH-G-71
Gaskets; asbestos, metallic-cloth.....	*HH-G-76a
Gaskets; metallic-encased.....	*HH-G-101
Gaskets; plumbing-fixture-setting.....	HH-G-116
Gaskets; rubber (natural or synthetic), molded sheet, and strip.....	*HH-G-156a
Insulation; bat or strip-form and loose-fill.....	HH-I-521b
Insulation; cotton batts.....	HH-I-528
Insulation (glass-fiber); semi-rigid.....	HH-I-556
Insulation; laminated-asbestos.....	HH-I-561b
Insulation (vegetable or wood-fiber); blanket, felt, and loose-fill.....	HH-I-571a
Insulation, vermiculite; block and pipe-covering (molded).....	HH-I-578a
Linings, brake; (automotive-use).....	*HH-L-361a
Magnesia; block, cement, and pipe-covering (molded).....	*HH-M-61a
Millboard; asbestos.....	*HH-M-351a
Mineral-Wool, impregnated; blanket, block, and pipe-covering (molded), (for low temperatures).....	HH-M-371a
Mortar; air-setting, refractory, bonding, (wet and dry types)..	HH-M-611a
Mortar; heat-setting, refractory.....	HH-M-622
Packing; asbestos, metallic-cloth, sheet and tape.....	*HH-P-31a
Packing; asbestos, rod, braided.....	HH-P-34a
Packing; asbestos, rod, high-pressure.....	*HH-P-36a
Packing; asbestos, rope and wick.....	*HH-P-41
Packing; asbestos, sheet, compressed.....	*HH-P-46a
Packing; asbestos, valve-stem.....	*HH-P-51a
Packing; diaphragm.....	*HH-P-61c
Packing; fabric, condenser-tube.....	*HH-P-71
Packing; fiber, hard, sheet.....	*HH-P-91a
Packing; fiber (for) lubricating and fuel-oil.....	*HH-P-96b
Packing; flax, hemp, or cotton.....	*HH-P-106b
Packing; hydraulic.....	*HH-P-112a
Packing; jute, twisted.....	HH-P-117
Packing; metallic, flexible.....	*HH-P-126b
Packing; metallic, flexible, condenser-tube.....	HH-P-128
Packing; metallic and nonmetallic, plastic.....	*HH-P-131a
Packing; rubber, cloth-insertion.....	*HH-P-151b
Packing; semimetallic.....	*HH-P-166a
Packing; spiral, gland, low-pressure.....	*HH-P-171a
Phenolic-Condensation-Products; laminated (for electric purposes).....	HH-P-256
Pipe-Covering; cork, molded.....	HH-P-381
Pipe-Covering and Cement; mineral or rock-wool.....	HH-P-386a
Refractories; fire-clay, plastic.....	*HH-R-191
Tape; friction.....	*HH-T-101a
Tape; rubber, insulating.....	*HH-T-111b
Tubing; flexible, nonmetallic.....	*HH-T-791a

KNIT GOODS, NETTING, AND WEBBING

Symbol

Gloves; working, cotton, with-leather-palm..... *JJ-G-451
 Hose; fire, linen, unlined..... JJ-H-571

LEATHER AND LEATHER-GOODS

Leather; artificial (upholstery)..... *KK-L-136a
 Leather; upholstery..... *KK-L-291a

LUMBER AND LUMBER PRODUCTS

Lumber and Timber; hardwood..... MM-L-736
 Lumber and Timber; softwood..... MM-L-751c
 Handles; mop..... *NN-H-101

MACHINERY

Air-Conditioning-Units (room-coolers); electric-motor-driven,
 portable..... *OO-A-361
 Coolers, drinking-water; electric..... *OO-C-566a
 Grinders; bench, hand-power..... *OO-G-661
 Hammers; electric, portable..... OO-H-103
 Sanders, portable; belt, disk, and oscillating..... OO-S-101

METALS

Bars; reinforcement; (for) concrete..... *QQ-B-71a
 Bases, metal; (for) plaster and stucco construction..... *QQ-B-101c
 Copper; bars, plates, rods, shapes, sheets, and strips..... *QQ-C-501a
 Culverts; iron or steel, zinc-coated..... *QQ-C-806
 Iron and Steel; sheet, zinc-coated (galvanized)..... *QQ-I-716
 Lead; calking..... *QQ-L-156
 Lead; sheet..... *QQ-L-201
 Solder; tin-lead..... *QQ-S-571a
 Steel; carbon (low-carbon), sheets and strips..... *QQ-S-636
 Steel; staybolt (boiler)..... *QQ-S-701
 Steel, structural (including welding) and rivet;
 (for) bridges and buildings..... *QQ-S-741
 Steel, Corrosion-Resisting; plates, sheets, strips, and
 structural-shapes..... QQ-S-766a
 Terne-Plate (long-ternes)..... *QQ-T-191
 Terne-Plate (roofing-tin)..... QQ-T-201
 Zinc; plates, sheets, and strips..... *QQ-Z-301a

METAL PRODUCTS

Cloth; wire, screen..... *RR-C-451a
 Fencing; chain-link or welded..... *RR-F-191
 Fencing; wire (barbed, netting, and woven), black and
 galvanized..... *RR-F-221
 Gratings; steel, floor (except for Naval vessels)..... *RR-G-661a
 Rope; wire..... *RR-R-571a (15)
 Tile, wall; enameled-iron..... RR-T-421
 Treads; safety, metallic..... *RR-T-661

MINERALS AND PRODUCTS (nonmetallic)

Specification
Symbol

Acoustic-Materials; (for) plastic-application.....	*SS-A-111
Acoustical-Units; prefabricated.....	*SS-A-118
Aggregate; (for) Portland cement concrete.....	*SS-A-281a
Asphalt; (for) built-up roofing, waterproofing, and dampproofing.....	*SS-A-666
Asphalt; cut-back (for) road-work.....	*SS-A-671a
Asphalt; emulsion (for) road-work.....	*SS-A-674a
Asphalt; petroleum, type PAF-1-25, (for) joint-filler (squeegee or pouring method).....	*SS-A-696
Asphalt-Primer; (for) roofing and waterproofing.....	*SS-A-701
Asphalt; (for use in) road and pavement construction.....	*SS-A-706b
Brick; building, (common), clay.....	*SS-B-656
Brick; concrete.....	*SS-B-663
Brick; paving.....	*SS-B-671a
Brick; sand-lime.....	*SS-B-681
Brick; sewer, clay.....	*SS-B-691
Cement; bituminous, plastic.....	*SS-C-153
Cements, hydraulic; general specifications (methods for sampling, inspection, and testing).....	SS-C-158a (10¢)
Cement; Keene's.....	*SS-C-161
Cement; masonry.....	*SS-C-181b
Cement; Portland.....	*SS-C-191b
Cement; Portland, high-early-strength.....	*SS-C-201a
Cement; Portland, pozzolana.....	*SS-C-208a
Cement; Portland, sulphate-resisting.....	*SS-C-211a
Concrete-Units; masonry, hollow.....	*SS-C-621
Crushed-Stone, Crushed-Gravel, and Crushed-Slag; (for) binder-course, sheet-asphalt-pavement.....	*SS-C-726a
Crushed-Stone, Crushed-Gravel, and Crushed-Slag; (for) bituminous-concrete-base or surface-course.....	*SS-C-731a
Crushed-Stone and Crushed-Slag; (for) bituminous-macadam- base or surface-course.....	*SS-C-736a
Crushed-Stone, Crushed-Slag, and Gravel; (for) bituminous surface-treatment.....	*SS-C-741a
Crushed-Stone, Crushed-Slag, and Gravel; (for) sewage trickling filter media.....	SS-C-744
Crushed-Stone and Crushed-Slag; (for) waterbound-base or wearing-course.....	*SS-C-746a
Filler; joint-sealing, hot-poured type (for concrete).....	SS-F-336)
Granite-Blocks; recut granite, and durax granite pavements....	*SS-G-651
Lime; hydrated (for) structural purposes.....	*SS-L-351
Lime; hydraulic, hydrated.....	*SS-L-361
Materials; (for) cushion course, brick, stone-block, or wood-block pavements (sand, slag, limestone, screenings, etc.).....	*SS-M-51
Mineral-Filler; (for) sheet asphalt or asphaltic concrete pavements (Portland cement, limestone dust and dolomite dust).....	*SS-M-351
Pipe; asbestos-cement.....	SS-P-351
Pipe; clay, sewer.....	*SS-P-361a
Pipe; concrete, non-pressure, non-reinforced and reinforced....	*SS-P-371
Plaster; gypsum.....	*SS-P-402
Plaster-Board; gypsum.....	*SS-P-431a

MINERAL AND PRODUCTS (nonmetallic)(Cont.)

Specification

Symbol

Quicklime; (for) structural purposes.....	*SS-Q-351
Road and Paving-Materials; general specifications (methods for sampling and testing).....	SS-R-406a (10)
Roof-Coating; asphalt, brushing-consistency.....	*SS-R-451
Roofing; asphalt-prepared, smooth-surfaced.....	*SS-R-501
Roofing; asphalt and asbestos-prepared, mineral-surfaced.....	*SS-R-511
Roofing and Shingles; asphalt-prepared, mineral-surfaced.....	*SS-R-521
Sand; (for) cement-mortar-bed, (for) brick, stone-block or wood-block pavements.....	*SS-S-51
Sand; (for) grout-filler, brick and stone-block pavements.....	*SS-S-61
Sand; (for use in) sheet asphalt of bituminous concrete pavements.....	*SS-S-71a
Sheathing-Board; gypsum.....	SS-S-276
Sheets (corrugated) and Shapes; cement-asbestos.....	SS-S-284
Shingles; roofing, cement-asbestos.....	*SS-S-291
Siding; cement-asbestos.....	SS-S-346
Slate; roofing.....	*SS-S-451
Stone; architectural, cast.....	*SS-S-721
Stones; sharpening.....	*SS-S-736
Tile; asphalt.....	SS-T-306a
Tile, drain; clay.....	SS-T-310
Tile; partition, gypsum.....	*SS-T-316
Tile; structural, clay, floor.....	*SS-T-321
Tile; structural, clay, load-bearing-wall.....	*SS-T-341a
Tile; structural, clay, non-load-bearing.....	*SS-T-351a
Wall-Board; gypsum.....	*SS-W-51a

PAINTS, PIGMENTS, VARNISHES AND PRODUCTS

Aluminum-Pigment; powder and paste (for paint).....	*TT-A-468
Blue-Lead; basic-sulphate, dry and paste-in-oil.....	*TT-B-486
Bone-Black; dry (paint pigment).....	*TT-B-600
Calcimine (cold- and hot-water-types).....	*TT-C-96
Carbon-Black; dry (paint-pigment).....	*TT-C-120
Chrome-Green; pure, dry (paint pigment).....	*TT-C-235
Chrome-Yellow and Chrome-Orange; dry (paint pigment).....	*TT-C-290
Chromium-Oxide-Green; dry (paint pigment).....	*TT-C-306
Compound, calking; plastic (for masonry and other structures)..	*TT-C-598
Copper-Phthalocyanine-Blue; dry (paint pigment).....	*TT-C-610
Drier; paint, liquid.....	*TT-D-651a
Enamel; drum-coating, exterior, rust-inhibiting, solvent-resistant.....	*TT-E-485a
Enamel; heat-resisting (400° F), black.....	*TT-E-496
Enamel; interior, gloss, light-tints and white.....	*TT-E-506a
Enamel; lusterless, olive-drab (primarily for nonmilitary-use),	*TT-E-514
Enamel; pigmented (air-drying and baking), black.....	*TT-E-521
Enamel; water-resisting, red.....	*TT-E-531a
Filler; wood, paste.....	*TT-F-336a
Indian-Red and Bright-Red; (Iron-Oxide) dry; (paint-pigments)..	*TT-I-511a
Iron-Blue; dry (paint pigment).....	*TT-I-677
Iron-Oxide; black, synthetic, dry (paint-pigment).....	*TT-I-698
Iron-Oxide; brown, synthetic, dry (paint-pigment).....	*TT-I-702

PAINTS, PIGMENTS, VARNISHES AND PRODUCTS (Cont.)

Specification
Symbol

Lacquer; spraying, clear and pigmented (general use).....	*TT-L-58
Lampblack; dry (paint-pigment).....	*TT-L-70
Lithopone; dry (paint-pigment).....	*TT-L-426
Magnesium-Silicate; dry (paint-pigment).....	*TT-M-90
Metallic-Brown; dry (paint-pigment).....	*TT-M-251
Mineral-Red (Iron-Oxide), natural; dry (paint-pigments).....	*TT-M-381
Ocher; yellow, dry (paint-pigment).....	*TT-O-121
Oil; flattening and mixed (for thinning white-lead paste and similar paste paints).....	*TT-O-356a
Oil; linseed-replacement (for thinning paints and pastes in oil)	*TT-O-371
Paint, blue-lead-base; basic-sulphate, linseed-oil, ready-mixed	*TT-P-20
Paint; cement-water, powder, white and tints (for interior and exterior-use).....	*TT-P-21
Paint; cold-water, exterior, powder (with mixing liquid).....	*TT-P-22
Paint; cold-water, interior, light-tints and white.....	*TT-P-23a
Paint; concrete and masonry, exterior, eggshell-finish, ready-mixed, white and tints.....	*TT-P-24
Paint; exterior-primer, ready-mixed, white (under-coat for wood).....	*TT-P-25
Paint; graphite, outside, ready-mixed, black.....	*TT-P-27
Paints; iron-oxide, ready-mixed and semipaste, red and brown...	*TT-P-31a
Paint; oil, exterior, ready-mixed, light-tints and white.....	*TT-P-40
Paint; oil, interior, 1-coat-flat, heavy-bodied (for thinning), light-tints and white (combined sealer, primer, and finish).....	*TT-P-47
Paints; oil, interior, eggshell-flat-finish, ready-mixed and semipaste, light-tints and white.....	*TT-P-51a
Paint; outside, ready-mixed, medium-chrome-yellow.....	*TT-P-53
Paint; (for) priming plaster-surfaces (plaster primer and sealer).....	*TT-P-56
Paint; ready-mixed, international-orange.....	*TT-P-59
Paints; ready-mixed, black.....	*TT-P-61a
Paints; ready-mixed and semipaste, exterior, chrome-green.....	*TT-P-71a
Paints; ready-mixed, olive-drab.....	*TT-P-81a
Paint, red-lead-base; linseed-oil, ready-mixed.....	*TT-P-86
Paint; resin-emulsion, interior, paste, tints and white.....	*TT-P-88a
Paint; rubber-base, (for) cement-floors.....	*TT-P-91
Paint; traffic, exterior, white and yellow.....	*TT-P-115
Paint, Varnish, Lacquer, and related-materials; general specification for sampling and test-methods.....	*TT-P-141a (20¢)
Paint; varnish-base (for concrete and wood floors).....	*TT-P-146
Pigments, in-oil; paint colors.....	*TT-P-381
Primer; paint, zinc dust-zinc oxide (for galvanized (zinc-coated) or zinc surfaces).....	*TT-P-641
Putty and Elastic-Compound; (for) metal-sash-glazing.....	*TT-P-781a
Putty; pure-linseed-oil, (for) wood sash-glazing.....	*TT-P-791a
Red-Lead; dry and paste-in-oil.....	*TT-R-191a
Remover; paint and varnish (organic-solvent-type).....	*TT-R-251a
Sealer, floor; lacquer-type (for oiled wood floors).....	*TT-S-171
Sealer, floor; varnish-type (for wood and cork).....	*TT-S-176a
Shellac; orange.....	*TT-S-271
Sienna; burnt and raw, dry (paint-pigment).....	*TT-S-346

PAINTS, PIGMENTS, VARNISHES AND PRODUCTS (Cont.)

Symbol

Thinner; lacquer.....	*TT-T-266
Thinner; paint, volatile mineral spirits.....	*TT-T-291a
Titanium-Dioxide; dry (paint-pigment).....	*TT-T-425
Toluidine-Red-Toner; dry (paint-pigment).....	*TT-T-562
Ultramarine-blue; dry (paint-pigment).....	*TT-U-450
Umber, burnt and raw; dry (paint-pigment).....	*TT-U-481
Varnish; asphalt.....	*TT-V-51a
Varnish; damar.....	*TT-V-61
Varnish; interior.....	*TT-V-71a
Varnish; mixing (for) aluminum-paint.....	*TT-V-81a
Varnish, Rubbing; cabinet.....	*TT-V-86
Varnish; shellac.....	*TT-V-91a
Varnish; spar, water-resisting.....	*TT-V-121b
Varnish; spirit (shellac varnish replacement).....	*TT-V-130
Venetian-Red; dry (paint-pigment).....	*TT-V-226
White-Lead; basic-carbonate, dry, paste-in-oil, and semipaste containing volatile-thinner.....	*TT-W-251b
White-Lead; basic-sulphate, dry and paste-in-oil.....	*TT-W-261a
Wood-Preservative; anthracene-oil (for) brush, spray, and open-tank treatment.....	*TT-W-531
Wood-Preservative; celcure (acid-cupric-chromate).....	*TT-W-546
Wood-Preservative; chromated-zinc-chloride.....	*TT-W-551
Wood-Preservative; coal-tar creosote.....	*TT-W-556a
Wood-Preservative; coal-tar-creosote (crystal-free), (for) brush, spray, or open-tank treatment.....	*TT-W-560
Wood-Preservative; creosote-coal-tar-solution.....	*TT-W-566a
Wood-Preservative; creosote-petroleum-solution.....	*TT-W-568
Wood-Preservative; recommended treating practice.....	*TT-W-571b
Wood-Preservative; Wolman-salt (Tanalith).....	*TT-W-573
Wood-Preservative; zinc-chloride.....	*TT-W-576a
Wood-Preservative; zinc-meta-arsenite (ZMA).....	*TT-W-581
Yellow-Iron-Oxide; hydrated, synthetic, dry (paint-pigment)....	*TT-Y-216
Zinc-Oxide; dry and paste-in-oil.....	*TT-Z-301
Zinc-Oxide; leaded, dry and paste-in-oil.....	*TT-Z-321
Zinc-Yellow (Zinc-Chromate); dry (paint-pigment).....	*TT-Z-415

PAPER AND PRODUCTS

Paper, kraft; concrete-curing, waterproofed.....	UU-P-264
Paper; sheathing, waterproof.....	*UU-P-536
Wall-Board; composition.....	*UU-W-101a

PETROLEUM AND PRODUCTS

Kerosene.....	*VV-K-211a
Lubricant; chain and wire-rope.....	*VV-L-751
Oil; cutting, mineral-fatty-oil-blend.....	*VV-O-251a
Oil; cutting, soluble.....	*VV-O-261
Oil; fuel, (for) oil-burners.....	*VV-O-326
Oil; illuminating, long-time-burning.....	*VV-O-381
Oil; lubricating, turbine, dynamo, and high-speed steam-engine.	*VV-O-661
Oil; road, type OH-1-25, hot-application.....	*VV-O-751

PIPE, PIPE-FITTINGS, PLUMBING-FIXTURES, TUBES, AND TUBING (metallic)

Conduit; steel, flexible.....	WW-C-566
Conduit; steel, rigid, enameled.....	*WW-C-571
Conduit; steel, rigid, zinc-coated.....	*WW-C-581a
Coupling; hose, cotton (rubber-lined) and linen (unlined).....	*WW-C-621a
Coupling; hose, garden and water.....	*WW-C-623a
Couplings; hose, oil-suction and discharge.....	*WW-C-626
Couplings; hose, pneumatic and spray (for working pressures up to 150 pounds per square inch).....	*WW-C-631
Couplings; hose, steam.....	*WW-C-636
Couplings; hose, water-suction.....	*WW-C-646
Flange-Dimensions, standard; (classes 125 and 250 cast-iron flanges; classes 150, 250, and 300 bronze-flanges), (for land use).....	WW-F-406a
Nipples, pipe; brass, steel, and wrought-iron.....	*WW-N-351
Pipe, Bends and Traps; lead (for) plumbing and water-distribution.....	WW-P-325
Pipe; brass, seamless, iron-pipe-size, standard and extra-strong.....	*WW-P-351
Pipe, cast-iron; drainage, vent, and waste (threaded).....	*WW-P-356
Pipe; copper, seamless, iron-pipe-size, standard.....	*WW-P-377
Pipe and Pipe-Fittings; soil, cast-iron.....	*WW-P-401
Pipe; steel and ferrous-alloy (for) bending, flanging, etc. (iron-pipe-size).....	*WW-P-404
Pipe; steel and ferrous-alloy (for) ordinary uses (iron-pipe-size).....	*WW-P-406
Pipe; water, cast-iron (bell and spigot, and bolted-joint).....	*WW-P-421
Pipe; wrought-iron, welded, black and zinc-coated.....	WW-P-441a
Pipe-Fittings; brass or bronze (threaded or brazed), 125-pounds..	*WW-P-448a
Pipe-Fittings; brass or bronze (threaded), 250-pounds.....	*WW-P-461a
Pipe-Fittings; cast-iron, drainage.....	*WW-P-491
Pipe-Fittings; cast-iron (threaded).....	*WW-P-501a
Pipe-Fittings; malleable-iron (threaded), 150-pounds.....	*WW-P-521a
Plumbing-Fixtures; (for) land use.....	*WW-P-541a (15 ϕ)
Plumbing-Fixtures; (for) land use. (Formed-Metal Plumbing-Fixtures).....	WW-P-542
Traps; radiator, thermostatic, brass or bronze, low-pressure, 100 square-foot-size (for land use).....	*WW-T-696
Tubes; boiler, charcoal-iron, lapwelded.....	WW-T-721
Tubes; boiler, steel.....	*WW-T-731a
Tubes; condenser and ferrule-stock, Admiralty-metal.....	*WW-T-756a
Tubing, aluminum (Al-2); round, seamless.....	*WW-T-783a
Tubing, aluminum (Al-24) (aluminum-copper-magnesium (1.5%) -manganese); round, seamless.....	WW-T-785
Tubing, aluminum-alloy (Al-17) (aluminum-copper magnesium-manganese); round, seamless.....	*WW-T-786a
Tubing, aluminum-alloy (Al-52) (aluminum-magnesium-chromium); round, seamless.....	WW-T-787
Tubing, aluminum-alloy (Al-3) (aluminum-manganese), round, seamless.....	*WW-T-788a
Tubing, aluminum-alloy (Al-61) (aluminum-manganese-silicon); round, seamless.....	WW-T-789

PIPE, PIPE-FITTINGS, PLUMBING-FIXTURES, TUBES, AND TUBING
(metallic), (Cont.)

Specification
 Symbol

Tubing, aluminum-alloy (Al-53), (aluminum-magnesium-silicon-chromium); round, seamless.....	WW-T-790
Tubing; brass, seamless.....	*WW-T-791
Tubing; copper, seamless (for general use with I.P.S. flanged-fittings).....	*WW-T-797
Tubing; copper, seamless (for use with soldered or flared-fittings).....	*WW-T-799a
Tubing; electrical, metallic.....	*WW-T-806a
Unions; brass or bronze, 250-pounds.....	*WW-U-516
Unions; malleable-iron or steel, 250-pounds.....	*WW-U-531
Unions; malleable-iron or steel, 300-pounds.....	*WW-U-536
Valves, brass or bronze; angle and globe, 150-pounds, threaded and flanged, (for land use).....	*WW-V-51
Valves, cast-iron, gate; 125- and 250-pound, screwed and flanged (for land use).....	*WW-V-58
Valves, cylinder; oxygen (for standard and industrial cylinders).....	*WW-V-61
Valves, gate; 125-pound, threaded and flanged, (for land use)..	*WW-V-76b
Valves; radiator; air, thermostatic (gravity-steamheating-systems).....	*WW-V-151

RUBBER AND RUBBER-GOODS

Cushion (underlay); carpet and rug, sponge-rubber.....	ZZ-C-811
Floor-Covering; rubber, sheet.....	*ZZ-F-461
Hose; fire, cotton, rubber-lined.....	*ZZ-H-451a
Hose; gas (acetylene, air, hydrogen, and oxygen).....	*ZZ-H-461a
Hose; water, braided.....	*ZZ-H-601
Hose; water, wrapped.....	*ZZ-H-611
Mats, Floor; rubber, link-type.....	ZZ-M-46
Matting; rubber.....	*ZZ-M-71
Matting; rubber (for use around electrical apparatus or circuits not exceeding 3,000 volts to ground).....	*ZZ-M-81
Tile; floor, rubber.....	ZZ-T-301

TEXTILES (yardage)

Cloth; awning.....	*CCC-C-406
Cloth; shade.....	*CCC-C-521a

TEXTILE PRODUCTS

Mats; cotton (for concrete-curing).....	DDD-M-148
Mats, door; fiber.....	*DDD-M-156a
Shades, window; rollers, slats, cords, and accessories.....	*DDD-S-251a

TOOLS

Specification
Symbol

Goggles; eyecup, protective, impact-resisting (chippers' grinders', etc.).....	*GGG-G-501b
Goggles; eyecup, protective (welders').....	*GGG-G-511b
Goggles; rubber-frame.....	*GGG-G-521

VEGETABLE PRODUCTS

Oil; linseed, boiled.....	*JJJ-O-331
Oil; linseed, raw.....	*JJJ-O-336
Oil; soybean; refined (for paint and varnish).....	*JJJ-O-348
Oil; tung (china-wood), raw.....	*JJJ-O-353
Wax; carnauba.....	*JJJ-W-141

WOOD PRODUCTS

Blinds; venetian, wood-slat.....	LLL-B-441
Carpet; cork.....	LLL-C-96
Charcoal.....	LLL-C-251
Fiber-Board; hard-pressed, structural.....	LLL-F-311
Fiber-Board; insulating.....	LLL-F-321b
Floor-coverings; felt-backed.....	LLL-F-471
Linoleum; battleship.....	*LLL-L-351a
Linoleum; inlaid and molded.....	*LLL-L-359
Linoleum; plain, jaspe and marbled.....	*LLL-L-367
Shades, window; wood-slats.....	LLL-S-256
Tile; cork.....	LLL-T-431
Turpentine; gum-spirits and wood (steam-distilled and sulphate), (for) paint.....	*LLL-T-791b
Turpentine; wood (destructively-distilled), (for) paint.....	*LLL-T-792a

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