

Material Group Codes by Number

Group/Title

ORNL Service Groups

Group	Title
A	Research & Development (R&D)
B	Studies & Analysis (Not R&D)
C	Construction
C211	Architect & Engineering Services
D	Information Technology and Telecommunications Services
DA	Computer, Software Maintenance
DB	Computer, Hardware Maintenance
F	Natural Resources and Conservation Services
G	Universities – R&D
G1	Universities – UT only
H	Quality Control, Testing and Inspection
I	Subcontracts – Human Resources Approval
IA	Interagency Agreements
IWO	InterOffice Work Orders
J	Maintenance, Repair, and Rebuild Services
K	Modification of Equipment
L	Independent Subcontractor
M	Independent Subcontractor Human Resources
MA	Independent Subcontractor Legal
MB	Independent Subcontractor Human Resources Legal
MPO	Memorandum Purchase Order
MPOY	Memorandum Purchase Orders – Y12
N	Installation of Equipment
O	Individual Consultant
OIGT	Other Government Transfer
ORIS	ORISE
Q	Medical Services
R	Professional, Administrative, and Management Services
S	Utilities
SNSTA	SNS Task Authorization
T	Photographic, Mapping, Printing, and Publication Services
U	Education and Training Services
V	Transportation, Travel, and Relocation Services
WA	Waste (Hazardous, Radioactive, etc.) and Recycle
X	Lease/Rental – Facilities
Z	Maintenance, Repair, and Alteration of Real Property

ORNL Material Groups

Group	Title
1W	Warranty Returns
10	Leases of Equipment
11	CITR – Materials & Equipment
13	Weapons, Ammunition, and Explosives
19	Small Water Craft
20	Ships and Marine Equipment
21	Fabrication
22	Railway Equipment
23	Motor Vehicles, Trailers, and Cycles
24	Tractors
25	Vehicular Equipment and Components
26	Tires and Tubes
28	Engines, Turbines, and Components
29	Engine Accessories
30	Mechanical Power Transmission Equipment
31	Bearings
32	Industrial Manufacturing and Processing Machinery
37	Agricultural Machinery and Equipment
38	Construction, Mining, Excavating, and Highway Maintenance Equipment
39	Materials Handling Equipment
40	Rope, Cable, Chain, and Fittings
41	Refrigeration, Air Conditioning, and Air Circulating Equipment
42	Safety, Environmental Protection, Fire Fighting, and Rescue Equipment
4210	Waste/Recycle, Transport, Treatment, Storage, Disposal
43	Pumps and Compressors
44	Furnace, Steam Plant, and Drying Equipment; and Nuclear Reactors
45	Plumbing, Heating, and Waste Disposal Equipment
46	Water Purification and Sewage Treatment Equipment
47	Pipe, Tubing, Hose, and Fittings
48	Valves
49	Maintenance and Repair Shop Equipment
51	Tools
53	Hardware and Abrasives
54	Prefabricated Structures and Scaffolding
55	Lumber, Millwork, Plywood, and Veneer
56	Construction and Building Materials

58	Communication and Detection Equipment; Lasers and Masers	87	Agricultural
5860	Radiation Devices	88	Live Animals
59	Electrical and Electronic Equipment Components	89	Subsistence
60	Fiber Optics Materials, Components, Assemblies, and Accessories	91	Fuels, Lubricants, Oils, and Waxes
61	Electric Wire, and Power and Distribution Equipment	93	Nonmetallic Fabricated Materials
62	Lighting Fixtures and Lamps	94	Nonmetallic Crude Materials
63	Alarm, Signal and Security Detection Systems	95	Metal Bars, Sheets, and Shapes
65	Medical, Dental, and Veterinary Equipment and Supplies	96	Ores, Minerals, and Their Primary Products
66	Instruments and Laboratory Equipment	97	Precious Metals
67	Photographic Equipment	98	Radioactive Materials and Isotopes
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6850	Controlled Substances, DEA Schedules III- V		
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7026	Computer Accessories		
7027	PDA/Handheld		
7028	Printer, Computer		
7099	Computer, Export Controlled		
71	Furniture		
72	Household and Commercial Furnishings and Appliances		
73	Food Preparation and Serving Equipment		
74	Office Machines		
7490	Duplicating/Printing Equipment		
75	Office Supplies		
76	Books, Maps, and Other Publications		
77	Musical Instruments		
7730	Consumer Electronics (Audio and Video Equipment)		
78	Recreational and Athletic Equipment		
79	Cleaning Equipment and Supplies		
80	Brushes, Paints, Sealers, and Adhesives		
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Material Group Descriptions

ORNL MATERIAL GROUPS

GROUP 1W

Warranty Returns

GROUP 10

Leases of Equipment

GROUP 13

Weapons, Ammunition, and Explosives

Includes:

- Ammunition
- Bombs
- Demolition Materials (Items for construction, quarrying and demolition work such as Dynamite and other explosives packed in cylindrical paper cartridges or in bags, Demolition Charges, Blasting Caps, Blasting Time Fuses, Detonating Cord, Demolition Firing Devices)
- Explosive Ordnance Disposal Tools and Equipment
- Fireworks
- Flares
- Grenades
- Guided Missile Warheads
- Rocket Motors
- Torpedoes

GROUP 19

Small Water Craft

Includes:

- Small craft (lifesaving boats, pneumatic boats, fishing vessels)

GROUP 20

Ships and Marine Equipment

Includes:

- Barges and lighters
- Boat Motors
- Dredges
- Floating drydocks
- Ship and Boat Propulsion Components (Propulsion Shafts; Propellers. Marine Transmissions)
- Rigging and Rigging Gear

- Deck Machinery (Steering Gears and Controls; Davits).
- Marine Hardware and Hull Items (Anchors; Grapnels; Watertight Doors; Ship Ventilators; Hatches; Scuttles; Fenders; Scuppers; Rudders; Chain Pipes; Hawse Pipes; Chocks; Mast and Boom Fittings; Oars; Paddles; Oarlocks).
- Buoys
- Commercial Fishing Equipment

GROUP 21

Fabrication

Includes:

- Machining metal parts at machine shops
- Boring, grinding, and milling

GROUP 22

Railway Equipment

Includes:

- Locomotives
- Rail Cars
- Rail Laying, Joining and Shifting Equipment;
- Locomotive Accessories and Components (Brake Beams and Components; Couplers; Wheel Sets)
- Rails; Railroad Tie Plates; Railroad Turnouts and Components; Railroad Spikes.

Excludes:

- Ballast (Group 56)
- Railroad Ties (Group 55)
- Hand Tools (Group 51).

GROUP 23

Motor Vehicles, Trailers, and Cycles

Note-This group includes only complete passenger motor vehicles, trucks and truck tractors, trailers, cycles, and chassis therefor. Parts and accessories are classified in other groups.

Includes:

- Ambulances
- Armored Cars
- Bicycles
- Buses
- Hearses
- Motorcycles, Motor Scooters
- Trailers (Semi trailers; Semi trailer Dollies; Cargo Trailers; Passenger and House Trailers);

- Trucks and Truck Tractors (Panel and Pick Up Trucks, Truck Tractors and Trailer Combinations)

Excludes:

- Fire Trucks (Group 42)
- Construction Type Earth and Rock Hauling Trucks (Group 38)
- Motorized Concrete Mixers (Group 38)

GROUP 24

Tractors

Includes only complete agricultural and industrial tractors and tractor chassis. Assemblies, subassemblies, parts, attachments or accessories are generally in Group 25.

Excludes Warehouse Tractors (Group 39).

GROUP 25

Vehicular Equipment Components

Note- This group includes components for vehicles and tractors included in groups 23 and 24, construction vehicles included in group 38, and warehouse trucks, tractors, and trailers included in group 39. It does not apply to railway vehicles (group 22), aircraft (group 15), or watercraft (group 20).

Includes:

- Structural Components (Springs; Shock Absorbers).
- Power Transmission Components (Transfer Transmission Assemblies; Clutch Assemblies; Universal Joints; Torque Converters).
- Brake, Steering, Axle, Wheel, and Track Components.
- Vehicle Accessories (Seat Covers; Windshield Wipers; Bumper Guards; Mirrors, Rear View and Side View; Heaters).

Excludes

- Speedometers (Group 66);
- Vehicular light fixtures (Group 62)
- Electronic switches, parts kits, and modification kits (Group 59).

GROUP 26

Tires and Tubes

Includes:

- Tires and Tubes for vehicles and aircraft
- Tire Rebuilding and Tire and Tube Repair Materials (Tread Gum; Cold Patches; Friction Cord Fabric; Vulcanizing Patches;

Padding Stock; Quick-Cure Gum; Tire and Tube Repair Kits; Camelback; Valves; Valve Cores).

GROUP 28

Engines, Turbines, and Components

Includes:

- Gasoline Engines and Components (Complete Engine Assemblies; Piston Rings; Cylinders; Pistons; Camshafts; Crankshafts).
- Diesel Engines and Components (Automotive, Industrial, Locomotive, and all other types of Diesel and Semi-Diesel Engines).
- Steam Engines
- Steam Turbines and Components
- Mercury Vapor Turbines.
- Water Turbines and Water Wheels
- Gas Turbines
- Jet Engines
- Rocket Engines and Components

Excludes boat motors and engines (Group 20) and the following components, which are in Group 29:

- Fuel System Components (Carburetors; Carburetor Floats; Fuel Pumps; Fuel Controls; Fuel Valves) ;
- Electrical System Components (Spark Plug Adapters; Ignition Distributors; Ignition Coils, Electrical Starters);
- Engine Cooling System Components (Engine Oil Coolers; Cooling Radiators); Engine Air/Oil Cleaners/Filters/Strainers

GROUP 29

Engine Accessories

Includes:

- Engine Fuel System Components (Carburetors; Fuel Pumps; Engine Fuel Filters; Fuel Tanks)
- Engine Electrical System Components (Generators; Magnetos; Spark Plugs; Ignition Coils; Ignition Distributors; Engine Voltage Regulators)
- Engine Cooling System Components (Cooling Fans; Radiators; Water Pumps; Water Hose Assemblies; Engine Coolant Filters)
- Engine Air and Oil Filters, Strainers, and Cleaners.

Excludes: Vehicular Lighting Fixtures (Group 62)

GROUP 30

Mechanical Power Transmission Equipment

Includes:

- Torque Converters and Speed Changers (Fluid Couplings; Non-vehicular Clutches and Couplings; Horizontal Right Angle Drive Gear Units.
- Gears, Pulleys, Sprockets, and Transmission Chain
- Miscellaneous Power Transmission Equipment (Shafts and Shafting; Collars; Gearshafts; Ball Joints; Actuating Cylinders).

Excludes: Automotive Torque Converters and Vehicular Power Transmission Components (Group 25).

GROUP 31

Bearings

Note- All bearings are to be classified in this group.

The group includes Ball Bearings; Roller Bearings; Plain Bearings; Sleeve Bearings; Split Bearings; Washer Type Bearings; Jewel Bearings, and Mounted Bearings (Pillow Block Units; Cartridge Units; Flange Units; Takeup Units; Hanger Box Units; Flat Box Units; Step Box Units).

GROUP 32

Industrial Manufacturing and Processing Machinery and Equipment

Includes:

- Woodworking Machinery and Equipment (Mortisers; Tenoners; Veneer Lathes; Saw Blades; Cutter Heads; Jointer and Notcher Heads; Cutters).
- Metalworking Machinery (boring machines; cutting tools for machine tools; drilling machines; heat-treating equipment; metal finishing equipment; milling machines; presses; rolling mills; saws and filing machines; welding equipment and supplies)
- Service and Trade Equipment (laundry and dry cleaning equipment; wrapping and packaging machinery; vending and coin-operated machines)
- Special Industry Machinery (Printing, binding, and duplicating equipment; Semiconductor, microcircuit, and printed circuit board manufacturing machinery; clean work stations, controlled environment, and related equipment)

Excludes: Hand-Held Power Tools (Group 51)

GROUP 3610

Printing, Duplicating, and Bookbinding Equipment

Includes:

- Blueprint printing and developing machines
- Film Processors
- Photocopiers with paper size capability of 11x17 inches or greater
- Printing Presses

Excludes Computer Printers (Group 7026).

GROUP 37

Agricultural Machinery and Equipment

Includes:

- Soil Preparation Equipment (Harrows; Plows; Seed Drills; Seeder Attachments; Sprayers).
- Harvesting Equipment
- Dairy, Poultry, and Livestock Equipment
- Pest, Disease, and Frost Control Equipment (Atomizers; Delousing Outfits; Dusters; Fog Generators; Sprayers; Traps).
- Gardening Implements and Tools (Garden Tractors; Lawn Mowers; Leaf Blowers; Hedge Trimmers; Lawn Seeders; Fertilizer Spreaders; Rakes, Hoes, and Other Gardening Tools).
- Saddlery, Harness, Whips, and Related Animal Furnishings

GROUP 38

Construction, Mining, Excavating, and Highway Maintenance Equipment

Includes:

- Earth Moving and Excavating Equipment (Scrapers; Ditchers; Loaders; Graders; Earth and Rock Hauling Trucks and Trailers)
- Cranes, Crane-Shovels, and Attachments (Buckets; Dippers; Gantries; Grapples; Lifting Magnets; Shovels; Wrecking Balls).
- Mining, Rock Drilling, Earth Boring, and Related Equipment (Augers; Crushers; Crushing, Screening, and Washing Plants and Units; Drilling Machines; Paving Breakers; Rock Drills).
- Road Clearing, Cleaning, and Marking Equipment (Pavement Scrubbing Machines; Snow Removal Units; Sweepers)
- Truck and Tractor Attachments (Angledozer; Augers; Backhoes;

- Bullclams; Bulldozer-Shovels; Scarifiers; Snowplows; Sweepers; Treedozer).
- Petroleum Production and Distribution Equipment
- Miscellaneous Construction Equipment (Asphalt Heaters; Batching Plants; Stabilizing and Compacting Equipment; Concrete Mixers; Pile Drivers)

Excludes

- Standard Tractors with Road Clearing or Cleaning Attachments (Group 24)
- Timber Sawing Equipment (Group 51)
- Trucks and Trailers (Group 23)

GROUP 39

Materials Handling Equipment

Includes:

- Conveyors (Pneumatic Tube Systems; Conveyor Feeders).
- Material Handling Equipment, Nonself-Propelled (Dolly Trucks; Pushcarts; Handcarts; Wheelbarrows; Hand Trucks; Materials Handling Trailers).
- Warehouse Trucks and Tractors, Self-Propelled (Fork Lift Trucks; Platform Trucks; Straddle Trucks)
- Blocks, Tackle, Rigging, and Slings
- Winches, Hoists, Cranes, and Derricks (Windlasses; Capstans; Warehouse Cranes; Overhead Traveling Cranes).
- Freight Elevators
- Miscellaneous Materials Handling Equipment (Skids; Pallets).

GROUP 40

Rope, Cable, Chain, and Fittings

Includes:

- Chain and Wire Rope
- Fiber Rope, Cordage, and Twine
- Fittings for Rope, Cable, and Chain (Anchor Guys; Wire Stranded Bands; Wire Rope Clamps; Cargo Hooks; Shackles; Swivels; Rope Terminals; Rope Wedges)

Excludes:

- Power Transmission Chain (Group 30)
- Slings (Group 39)
- Support Hooks (Group 53)

GROUP 41

Refrigeration, Air Conditioning, and Air Circulating Equipment

Includes:

- Refrigeration Equipment (Grocery Type Display Cases; Professional and Scientific Refrigerators; Photographic Refrigerators; Household and Commercial Refrigerators)
- Air Conditioning Equipment (Store Type Units; Window and Room Units; Marine, and Vehicular Air Conditioning Units)
- Refrigeration and Air Conditioning Components (Heat Exchanger Equipment; Refrigerant Strainers; Refrigeration Compressors; Servicing Equipment, such as Charging and testing manifolds, Lines and Units)
- Fans, Air Circulators, and Blower Equipment (Wall Type Fans; Pedestal Fans; Household and Attic Exhaust Fans; Floor Fans; Forged Draft Exhaust and Disposal Kits)
- Vortex Tubes and Other Related Cooling Tubes (Tool Grinding spot coolers; machining spot coolers; electronic equipment spot coolers; and electronic cabinet spot coolers).

Excludes:

- Combination Heater-Fans (Group 45)
- Cafeteria Type Refrigerated Display Cases; Soda Fountains; Milk, Soda, and Ice Cream Dispensers; Cold Food Counters; Food Serving Equipment (Group 73)
- Pipe and Tube (Group 47).

GROUP 42

Fire Fighting, Rescue, and Safety Equipment; and Environmental Protection Equipment and Materials

Includes:

- Fire Fighting Equipment (Fire Extinguishers; Fire Axes; Fire Rakes; Fire Trucks; Fire Hose; Fire Hose Reels; Fire Fighting Trailers; Fire Hydrants; Sprinkler Heads).
- Marine Lifesaving and Diving Equipment (Diving and Salvage Apparatus, including Pressurized Divers' Suits; Rescue Nets, Buoyant; Inflatable Life Vests; Life Rafts).
- Decontaminating and Impregnating Equipment
- Hazardous Material Spill Containment and Clean-up Equipment and Material (Secondary Spill Containment Sumps; Liquid Spill Containment Pallets; Spill Containment Basins; Spill Containment

Systems; Absorbent, Sorbent and Blotting Materials).

- Safety and Rescue Equipment (Portable Fire Escapes; Safety Nets, Nonbuoyant).
- Recycling and Reclamation Equipment (Material and Machinery designed to remove, neutralize and/or prepare for possible re-use of substances otherwise considered to be unreclaimable).

Excludes:

- Lifesaving Boats (Group 19)
- Wrecking Bars (Group 51)

GROUP 4210

Waste/Recycle, Transport, Treatment, Storage, Disposal

GROUP 43

Pumps and Compressors

Note-This group excludes pumps and compressors designed for use on individual types of equipment, such as engine fuel pumps, fork lift operating pumps, and vehicular brake system compressors. Also excluded are items specially designed as or for use on fuel dispensing equipment.

Includes:

- Compressors and Vacuum Pumps (truck Mounted and Trailer Mounted Compressors).
- Power and Hand Pumps
- Centrifugals, Separators, and Pressure and Vacuum Filters

Excludes:

- Laboratory Centrifuges (Groups 65 and 66)
- Laboratory Jet Pumps (Groups 65 and 66)
- Refrigeration Compressors (Group 41)
- Water Purification Filters (Group 46)

GROUP 44

Furnace, Steam Plant, and Drying Equipment; and Nuclear Reactors

Includes:

- Industrial Boilers (Steam Boilers, Boiler Drums; Water Heaters)
- Heat Exchangers and Steam Condensers
- Industrial Furnaces, Kilns, Lehrs, and Ovens (Crucible Furnaces; Cupola Furnaces)
- Driers, Dehydrators, Evaporators, and Anhydrators
- Air Purification Equipment (Electronic Precipitators; Dust Collection Equipment)

- Nuclear Reactors (all types of nuclear reactors and those items which are specifically designed for use within nuclear reactors, their primary cooling systems, auxiliary fluid systems, special propulsion plant systems, handling and servicing equipment, electrical and control systems, and associated special test
- and water chemistry control items).

Excludes

- Air Conditioning Equipment (Group 41).
- Fan and Blower Equipment (Group 41)
- Food Industry Ovens (Group 73)
- Laboratory Type Furnaces (Group 66)
- Metal Heat Treating Furnaces (Group 32)

GROUP 45

Plumbing, Heating, and Waste Disposal Equipment

Includes:

- Plumbing Fixtures and Accessories (Bathtubs; Commodes; Lavatories; Shower Cabinets; Sinks; Water Closets; Accessories and Component Parts, such as Dispensers, Faucets, Holders, Racks, Shower Heads, Flush Valves and Stop Valves).
- Space and Water Heating Equipment (Domestic Water Storage Tanks; Fireplace Heaters; Furnaces; Space Heaters; Heating Radiators; Immersion Heaters; Water Heaters)
- Fuel Burning Equipment Units Includes Oil Burners; Stokers; Gas Burners. Waste Disposal Equipment (Compactors; Destructors; Garbage Disposals; Incinerators; Septic Tanks).

Excludes:

- Fittings for Hose, Pipe and Tube (Group 47).
- Vehicle Heaters (Group 25)

GROUP 46

Water Purification and Sewage Treatment Equipment

Includes:

- Water Purification Equipment (Demineralizers; Filtration Equipment; Ice and Snow Melters).
- Water Distillation Equipment, Marine and Industrial
- Sewage Treatment Equipment

Excludes:

- Water Purification and Softening Compounds (Groups 68 and 79)
- Laboratory Distillation Apparatus (Group 66)

GROUP 47

Pipe, Tubing, Hose, and Fittings

Includes:

- Pipe, Tube and Rigid Tubing (Culvert Pipes; Culvert Pipe Connector Bands; Metallic Pipes; Plastic Pipes; Tubes and Rigid Tubing and their assemblies).
- Hose and Flexible Tubing (Air Duct, Metallic, Nonmetallic, and Textile Fiber Hoses and their assemblies; Flexible Tubing and their assemblies).
- Hose, Pipe, Tube, Lubrication, and Railing Fittings (Adapters; Bends; Caps; Clamps; Connectors; Couplings; Crosses; Elbows; Expansion Joints; Ferrules; Flanges; Laterals; Lubrication Fittings; Manifolds; Nipples; Nozzles; Outlets; Plugs; Reducers; Swing and Swivel Joints; Tees; Traps; Unions; Wyes).

Excludes:

- Air Conditioning-Heating Fittings and Pipes (Group 45)
- Asbestos and Cement, Bituminized Fiber, Clay and Concrete Pipes (Group 56)
- Bituminized Fiber and Concrete Fittings (Group 56)
- Conduit Boxes, Fittings, and Pipes (Group 59)
- Downspout Fittings and Pipes (Group 56)
- Exhaust Pipes (Groups 29 and 45)
- Fire Extinguishing Systems Pipes and Tubes and their assemblies (Group 42)
- Glass Tubing (Groups 66 and 93)
- Laboratory Fittings and Tubes (Group 66)
- Machine Thread Bushings and Plugs (Group 53)
- Medical and Surgical Fittings and Tubes (Group 65)

GROUP 48

Valves

Includes:

- Valves, Nonpowered (Gate, Globe, Angle, Check, and Relief Valves; Cocks)
- Valves, Powered (Electric Motor Operated Valves; Hydraulic Operated Valves; Solenoid Operated Valves)

Excludes:

- Engine intake and exhaust valves Groups 28 and 29)
- Fire hydrants (Group 42)
- Flush valves (Group 45)
- Plumbing equipment (Group 45)
- Sprinkler heads (Group 42)
- Tire valves (Group 26)

GROUP 49

Maintenance and Repair Shop Equipment

Note-Specialized equipment which is designed for automotive maintenance and repair, and which is also used for the maintenance and repair of nonautomotive vehicles or equipment, are classified in this group. Jigs, fixtures, and templates used with maintenance and repair shop equipment are classified in this group. However, jigs, fixtures, and templates used in conjunction with metalworking machinery are classified in Group 32.

Includes:

- Motor Vehicle Maintenance and Repair Shop Equipment (Automotive Lifts; Wheel Aligners; Brake Service Equipment; Tire Maintenance and Repair Equipment; Test equipment specially designed for use with motor vehicles)
- Lubrication and Fuel Dispensing Equipment (Hand Grease Guns; Centralized Lubrication Systems; Hydrostatic Lubricators; Oil and Gasoline Dispensing Pumps; Fuel Oil Dispensing Pumps; Hand Oilers; Grease Dispensers; Pressure Gun Attachments; Sight Feed Lubricators).

Excludes:

- Alemite and Lubrication Fittings (Group 47)
- Electrical and electronic test instruments (ammeters, voltmeters, ohmmeters, multimeters) (Group 66)
- Hand Tools (Group 51)

GROUP 51

Tools

Includes:

- Drill Bits, Counterbores, and Countersinks
- Hand Tools, Nonpowered (Blowtorches; Chisels; Files; Hammers; Jacks; Picks; Pipe Cutters; Rasps; Saws; Screw Plates; Axes; Hatchets; Machetes)
- Hand Tools, Power Driven (Drills; Riveters; Portable Electric Saws; Pneumatic Tools; Abrasive Wheels, Cones, and other Abrasive

Attachments for use only on Hand Held Power Tools)

- Inspection Gages and Precision Layout Tools (Go and Not-Go Gages, including Plug, Ring, Snap, Thread, and Length Gages; Profile Gages; Fixture Gages; Special Inspection Gages)
- Measuring Tools (Calipers; Levels; Micrometers; Plumb Bobs; Precision Tapes; Squares; Angle Gages; Center Gages; Depth Gages; Radius Gages; Height Gages (Vernier); Saw Tooth Set Gages; Screw Pitch Gages; Surface Gages; Telescoping Gages; Thickness Gages; Twist Drill Gages; Tool Setting Planer and Shaper Gages; Gage Blocks)
- Sets, Kits, and Outfits of Tools
- Taps, Dies, and Collets; Hand and Machine
- Tool and Hardware Boxes

Excludes:

- Gardening Rakes, Forks, Hoes, and other Garden Tools (Group 37)
- Punching, Stamping, and Marking Dies (Group 32)

GROUP 53

Hardware and Abrasives

Includes:

- Abrasives (Abrasive belts; Papers; Powders; Abrasive Polishing Compounds; Metal Finishing Abrasives; Industrial Diamonds; Diamond Dust)
- Brackets (Angle Brackets; Mounting Brackets; Corner Braces)
- Bushings, Rings, Shims, and Spacers
- Fasteners (Screws, Bolts, Studs, Nuts and Washers, Rivets, Eyelets; Grommets; Retaining Rings; Threaded Inserts)
- Hardware, Commercial (Cabinet and Door Hardware; Hinges; Latches; Straps and Strapping; Turnbuckles)
- Metal Screening (Insect Screening; Industrial Metal Cloth; Industrial Metal Mesh)
- O-Ring
- Packing and Gasket Materials (General Purpose Oil Grease, Air, Liquid, Gas, and chemical Seals; Oakum; Prefabricated Gaskets and Seals)
- Springs (Compression Springs; Torsion Springs; Leaf Spring Assemblies; Flat Springs; Extension Springs)

Excludes:

- Fencing (Group 56)
- Pipe Threaded Plugs (Group 47)
- Piston Rings (Groups 25, 28, 29, 30, 43, and 48)
- Shafts (Group 30)
- Shim Stock (Group 95)
- Sleeve Bearings (Group 31)

GROUP 54

Prefabricated Structures and Scaffolding

Includes:

- Prefabricated and Portable Buildings (Prefabricated Panels; Inflatable Shelters; Metal Screens and Metal Windows)
- Bridges, Fixed and Floating (Bridge Erection Equipment; Bridge Floats and Pontoons; Trestles)
- Storage Tanks
- Scaffolding Equipment and Concrete Forms (Prefabricated Concrete Placing Forms; Builders' Ladders)
- Prefabricated Tower Structures (Power Transmission Towers; Prefabricated Tower Components, such as Anchor Rails, Tie Rods, Braces, Steps, Guy Assemblies)
- Miscellaneous Prefabricated Structures (Bleachers; Grandstands)

Excludes:

- Fire Fighting Ladders (Group 42)
- Hot Water Tanks (Group 45)
- Maintenance Ladders (Group 49)
- Vehicle Ladders (Group 25)

GROUP 55

Lumber, Millwork, Plywood, and Veneer

Includes:

- Lumber and Related Basic Wood Materials (Dimensional Lumber; Wood Flooring; Mine Timbers; Poles; Railroad Ties; Wood Siding; Molding; Stakes)
- Millwork (Door Frames; Doors; Window Frames; Window Sashes).
- Plywood and Veneer (Plywood and Veneered Panels)

GROUP 56

Construction and Building Materials

Includes:

- Mineral Construction Materials, Bulk (Asphalt; Cinders; Gravel; Lime; Sand; Rough Dimension Stone, including Rubble; Cement; Ballast)
- Tile, Brick and Block
- Pipe and Conduit, Nonmetallic (Concrete Pipe and Conduit; Clay Pipe and Conduit for underground use; Drain Tile; Nonmetallic Pipe Fittings for underground use)
- Wallboard, Building Paper, and Thermal Insulation Materials (Paper Building Board; Ceiling Board; Gypsum Board; Insulating Board; Plasterboard; Soundproofing Board; Tar Paper; Wallpaper; Mineral Wool; Glass Wool Batts; Pipe Covering)
- Roofing and Siding Materials (Sheet Metal; Roofing Felt; Roll Roofing; Roofing Tile; Shingles)
- Fencing, Fences, Gates and Components
- Building Components, Prefabricated (Nonwooden Door Frames; Window Frames; Window Sashes; Eave Troughs (Gutters); Gratings; Grilles; Shutters; Fixed Fire Escapes; Mounted Partitions)
- Nonwood Construction Lumber (Nonwood Dimensional Lumber; Flooring; Special Turning and Carvings; Nonwood Veneer)

Excludes:

- Glass Building Block (Group 93)
- Electrical Insulation Materials (Group 59)
- Nonmetallic Pipe, Conduit, and Fittings for laboratory use (Group 66)
- Hose and Tubing, Flexible Nonmetallic (Group 47)

GROUP 58

Communication and Detection Equipment; Lasers and Masers

Includes:

- Bar Code Readers and Scanners
- Binoculars
- Cellular Phones
- Communications Security Equipment and Components
- Cryptologic Equipment and Components
- Electronic Countermeasures Equipment
- Facsimile Equipment
- Intercommunication and Public Address Systems
- Metal Detectors
- Modems

- Radio and Television Communication Equipment
- Sound Recording and Reproducing Equipment
- Stimulated Coherent Radiation Devices, Components, and Accessories (LASERS, MASERS)
- Telephone and Telegraph Equipment
- Telescopes
- Video Recording and Reproducing Equipment and associated equipment such as cleaners, splicers, rewinders, reels and tapes

Excludes:

- Computer monitors (Group 70),
- Dictating Machines (Group 74)
- Home Type Radio and Television Equipment (Group ??)
- Photographic equipment (Group 67)

GROUP 59

Electrical and Electronic Equipment Components

Includes:

- Amplifiers
- Antennas, Waveguides, and Related Equipment (Aerials; Masts; Tower Equipment; Attenuators; Couplers; Transmission Lines)
- Cable, Cord, and Wire Assemblies
- Capacitors
- Circuit Breakers
- Coils and Transformers
- Connectors, Electrical
- Electrical and Electronic assemblies, Boards, Cards, and Associated Hardware
- Electrical Contact Brushes and Electrodes (Brushes for electrical rotating equipment; Carbon Stock for Brushes; Brush Arm and Holders; Lighting Electrodes)
- Electrical Hardware and Supplies (Conduit; Raceways; Face Plates; Outlet and Junction Boxes)
- Electrical Insulators and Insulating Materials
- Electron Tubes and Associated Hardware
- Filters and Networks
- Fuses, Arrestors, Absorbers, and Protectors (Fuseholders; Fuse Boxes; Fuse Posts; Fuse Links; Fuse Blocks; Current Limiters; Electrostatic Dischargers)

- Headsets, Handsets, Microphones and Speakers
- Lugs, Terminals, and Terminal Strips
- Microcircuits (Integrated Circuit Devices; Integrated Circuit Modules, Integrated Electronic Devices: Hybrid, Magnetic, Molecular, Opto-Electronic, and Thin Film)
- Oscillators and Piezoelectric Crystals
- Relays and Solenoids
- Resistors
- Semiconductor Devices and Associated Hardware
- Switches
- Synchros and Resolvers

Excludes:

- Cable Assemblies, Fiber Optic (Group 60)
- Electric lighting fixtures, lamps, and associated hardware (Group 62)
- Interconnectors, Fiber Optic (Group 60)
- Switchgear (Group 61)
- Welding Electrodes (Group 32)

GROUP 60

Fiber Optics Materials, Components, Assemblies, and Accessories

Includes:

- Cables and Harnesses
- Conductors
- Fiber Optic Devices (transmitters, receivers, multiplexers, demultiplexers, modulators, demodulators, repeaters, attenuators, filters, integrated optical circuits)
- Interconnectors (all types of fiber optic terminations, such as connectors, dividers, couplers, rotary and nonrotary joints, splitters, mixers and splicers)
- Light emitting and laser diodes
- Light Transfer and Image Transfer Devices
- Photo Detectors

Excludes:

- Electrical connectors (Group 59)
- Medical imaging devices (Group 65)
- Electrical, electronic and optical instruments (Group 66)

GROUP 61

Electric Wire, and Power and Distribution Equipment

Includes:

- Batteries
- Converters, Electrical (Battery Charging Equipment, Rotating; Dynamotors; Motor-Converters; Motor-Generator Sets; Phase Converters; Rotating Equipment; Synchronous Converters).
- Electric Power and Distribution Cable with Attachments
- Electrical Control Equipment (Contactors; Motor Controllers; Power Servomechanisms; Switchgear; Voltage Regulators)
- Extension Cords
- Fuel Cell Power Units, Components, and Accessories
- Generators and Generator Sets, Electrical (Engine, Turbine, Wind, and Hand Driven Generator Sets)
- Motors, Electrical
- Solar Electric Power Systems
- Transformers: Distribution and Power Station
- Wire and Cable, Electrical

Excludes:

- Communication Cable Assemblies (Group 59)
- Fiber Optic Cable (Group 60)
- Radio Frequency Transmission Line (Group 59)
- Rectifying Crystals and Tubes (Group 59)
- Semiconductor Devices and Associated Hardware (Group 59)
- Starting Motors for Engines (Group 29)
- Transformers (Group 59)

GROUP 62

Lighting Fixtures and Lamps

Includes:

- Automotive, Marine, Railroad, and Aircraft Lights and Fixtures
- Ballasts, Lampholders, and Starters
- Candles
- Carbide Lamps
- Electric Lamps (Fluorescent, Incandescent, Mercury, Sodium)
- Extension Lights
- Floodlights
- Lighting Fixtures

- Searchlights

Excludes Signal and Alarm Equipment (Group 63).

GROUP 63

Alarm, Signal and Security Detection Systems

Includes:

- Aircraft Alarm and Signal Systems (Air Pressure Warning Signals, Crew Warning Signals, Altitude Warning Signals, Alarm Controls, Audible Landing Gear Alarms)
- Anti-intrusion Alarm Systems
- Burglar Alarm Systems
- Fire Alarms
- Foghorns
- Police Alarm Systems

Excludes: Engine Oil and Fuel Warning Devices (Group 66)

GROUP 65

Medical, Dental, and Veterinary Equipment and Supplies

Includes:

- Bandages, Compresses, Dressings, Gauze, Pads, Sponges, and impregnated surgical dressing materials.
- Drugs and Biologicals
- Hospital Furniture, Equipment, and Supplies (Orthopedic Equipment; Physiotherapy Equipment; Sterilizers; Wheel Chairs; Litters; Hospital Beds)
- Hospital and Surgical Clothing
- In Vitro Diagnostic Substances, Reagents, Test Kits and Sets (In vitro diagnostic aids, such as test tablets, test slides, test solutions, reagents; sets and kits designated for in vitro qualitative and quantitative tests on specimens, such as blood, urine, feces, and the like)
- Medical Instruments, Equipment, and Supplies (Respirators; Orthopedic Supplies; Arch Supports; Clinical Thermometers; Veterinary Equipment)
- Medicated Cosmetics and Toiletries
- Ophthalmic Lenses and Lens Blanks; Spectacle Frames; Ophthalmological and Optometric Instruments, Equipment, and Supplies.
- Veterinary Drugs and Biologicals
- X-ray Equipment and Supplies

GROUP 66

Instruments and Laboratory Equipment

Includes: Acidity (pH) Meters

- Ammeters
- Azimuths
- Binoculars
- Clocks
- Colorimeters
- Compasses
- Drafting, Surveying, and Mapping Instruments
- Dynamometers
- Environmental Chambers
- Fadeometers
- Gas Analyzers
- Industrial X-Ray Machines and Film
- Microscopes
- Multimeters
- Ohmmeters,
- Pressure Gages
- Scales and Balances
- Sextants
- Speedometers
- Tachometers
- Thermometers
- Time Recorders
- Time Stamps
- Voltmeters
- Weatherometers

Excludes:

- Clinical Thermometers (Group 65)
- Dental, Medical, Surgical, and Veterinary Instruments Group 65)
- Electronic Fiber Optic Test Equipment (Group 60)
- Gas Detecting Equipment (Group 63)
- Measuring Tools (Group 52)

GROUP 67

Photographic Equipment, General

Includes:

- Developing and Finishing Equipment (Editing Equipment; Enlargers; Driers; Pressers; Printers; Washers)
- Film
- Lenses
- Light Meters
- Photographic Chemicals
- Photographic Paper

Excludes:

- Industrial X-Ray Film (Group 66)

- Lamps (bulbs) (Group 62)
- Medical X-Ray Film (Group 65)
- Processed Microfilm (Group 76)

GROUP 6710
Cameras, Digital

GROUP 6720
Cameras, Non-digital

Includes:

- Aerial and Mapping Motion Picture Cameras
- Aerial, Mapping, Microfilm, and Studio Still-Picture Cameras

Excludes Television and Video Cameras (Group 58)

GROUP 6730
Projectors

Includes:

- Integrated Viewers/Printer and Microform storage and retrieval systems
- Photomap Projectors
- Screens
- Viewers

GROUP 6740
Camcorders

Includes:

Videocassette Recorder
Video Camera

GROUP 68
Chemicals and Chemical Products

Includes:

- Antifogging Compounds
- Antifreeze.
- Chemical elements and compounds, nonmedicinal
- Dyes
- Fungicides
- Gases: Compressed and Liquefied
- Insect Repellents
- Rodenticides
- Weed Killers

Excludes:

- Empty Gas Cylinders and their caps, valves, and valve spare parts (Group 81)
- In Vitro Diagnostic Substances and Reagents (Group 65)
- Medicinal Chemicals (Group 65)
- Photographic Chemicals (Group 67)

GROUP 6840
Controlled Substances, DEA Schedules I, II

- Codeine
- Heroin
- LSD
- Morphine
- Opiates
- OxyContin
- Percodan
- Ritalin

GROUP 6850
Controlled Substances, DEA Schedules III-V

- Antidiarrheals
- Codeine cough syrups
- Darvon
- Librium
- Tylenol elixir with codeine
- Valium

GROUP 6860
Cylinders

Includes:

- Cylinder rental charges
- Demurrage

Excludes:

- Gases

GROUP 69
Training Aids and Devices

Includes:

- Mockups
- Scale Models
- Training Films

GROUP 70
Software

Includes:

- System programs, such as operating systems, assemblers, compilers, executive routines, interpreters, translators;
- Utility programs, such as sort/merge programs, media conversion, maintenance diagnostic programs
- Application programs, such as payroll, inventory control, and engineering analysis programs.

Excludes: operating manuals and programmers' manuals (Group 76)

GROUP 7021
Computer Systems/Workstations

GROUP 7022
CPU, Computer

GROUP 7023
Monitor, Computer

GROUP 7024
Laptop

GROUP 7026
Computer Accessories

Includes:

- External Hard Drive
- Keyboard
- Scanners

GROUP 7027
PDA, Handheld

GROUP 7029
Computers, Export-Controlled

GROUP 71
Furniture

Includes:

- Auditorium Seating
- Blackboards
- Cabinets, lockers, bins, and shelving
- Household Furniture
- Library Furniture
- Office Furniture
- School Furniture

GROUP 72
Household and Commercial Furnishings and Appliances

Includes:

- Draperies, Awnings, and Shades
- Floor Coverings (Linoleum; Rubber and Asphalt Tile; Carpets; Rugs)
- Household Furnishings (Bedding; Tablecloths; Towels; Mattresses; Bedsprings)
- Utility Containers (Refuse Cans; Clothes Hampers; Fabric Utility Containers)

GROUP 73
Food Preparation and Serving Equipment

Includes:

- Cafeteria Display Cases; Milk, Soda, and/or Ice Cream Dispensers; Cold Food Counters)
- Cooking and Serving Equipment (Warming and/or Chilling Tables; Serving Carts
- Cutlery and Flatware
- Kitchen Equipment and Appliances (Dishwashing Machines; Food Slicing Machines; Food Mixers; Utility Carts)
- Kitchen Utensils (Pots; Pans; Can Openers; Graters; Food Mashers; Cleavers; Vacuum Bottles and Jugs)
- Tableware (China and Earthenware; Glassware; Paper Plates and Cups.

Excludes:

- Drinking Fountains (Group 41)
- Professional and Scientific Refrigerators (Group 41)

GROUP 74
Office Machines

Includes:

- Accounting and adding machines
- Addressing Machines
- Check Handling Machines
- Coin Counting Machines
- Currency Handling Machines
- Dictating Machines
- Electronic calculators
- Mailing Machines
- Paper Shredders
- Photocopiers with paper size capability of less than 11x17 inches
- Typewriters
- Visible Record Equipment (devices and systems designed to automatically store and retrieve hard copy documents)

Excludes:

- Photocopiers with paper size capability of 11x17 inches or greater (Group 7490)
- Computers, Monitors, Computer Accessories, Software (Groups 70-7099)
- Microform automatic retrieval systems that contain an integral viewer or view/printer (Group 67)

GROUP 7490
Duplicating/Printing Equipment

- Composing cameras

- Photocomposing machines, step and repeat
- Photocopiers with paper size capability of 11x17 inches or greater
- Printing presses

GROUP 75

Office Supplies and Devices

Includes:

- Adhesive Tape
- Art Supplies (Brushes, Easels)
- Forms
- Ink
- Paper Fasteners
- Pencils and Pens
- Staplers
- Stationery

GROUP 76

Books, Maps, and Other Publications

Includes:

- Atlases
- Books
- Decals
- Drawings and Specifications
- Globes
- Instruction Manuals
- Maps
- Microfilm, Processed
- Newspapers and Periodicals
- Pamphlets
- Posters
- Printed Labels

GROUP 77

Musical Instruments

Includes:

- Instrument Cases
- Music Stands
- Musical Instruments
- Tuning Forks

Excludes:

- Radios
- Tape Recorders

GROUP 7730

Consumer Electronics

- Camcorders
- DVD players and recorders
- Television sets
- Videocassette recorders

GROUP 78

Recreational and Athletic Equipment

Includes:

- Athletic and Sporting Equipment
- Billiard and Pool Tables and Equipment
- Fishing Tackle
- Games, Toys, and Wheeled Goods (Checkers; Playing Cards)
- Gymnasium Equipment.
- Gymnastic Equipment

Excludes Athletic and Sports Clothing (Group 84).

GROUP 79

Cleaning Equipment and Supplies

Includes:

- Automobile Polishes and Waxes
- Brooms
- Carpet Sweepers.
- Detergents
- Household Polishes and Waxes
- Mops
- Nontoilet Soaps
- Scouring Powders
- Sponges
- Squeegees
- Vacuum Cleaners

Excludes Abrasive Polishing Compounds (Group 53).

GROUP 80

Brushes, Paints, Sealers, and Adhesives

Includes:

- Adhesives
- Belt Dressing
- Calking and Glazing Compounds
- Paint Brushes
- Paints and Related Products (Primers; Sealers; Pigments for Coloring; Stains; Turpentine; Paint Removers)
- Preservative and Sealing Compounds (Water Resistant Compounds; Weather Resistant Compounds)
- Putties
- Wood and Metal Fillers

GROUP 81

Containers, Packaging, and Packing Supplies

Includes:

- Barrels
- Bottles
- Boxes, Cartons, and Crates

- Carboys
- Drums and Cans
- Gas Cylinders, empty
- Jars
- Mailing Tubes
- Packaging and Packing Bulk Materials (Wrapping Paper; Moisture Vapor Barrier Paper; Excelsior; Shipping Tags; Gummed Paper Tape; Packaging Staples; Baling Wire)
- Reels and Spools
- Shipping and Protective Envelopes
- Shipping Bags

Excludes Adhesives (Group 80).

GROUP 84

Clothing, Individual Equipment, and Insignia

Includes:

- Ammunition Belts
- Armor, Personal
- Athletic Clothing
- Badges and Insignia worn or carried on the person
- Brief Cases
- Duffel Bags
- Foot Lockers
- Handcuffs
- Helmets
- Outerwear
- Pistol Belts
- Safety and Protective Clothing;
- Safety Shoes
- Uniforms
- Work Clothing
- Work Gloves

Excludes Hospital and Surgical Clothing (Group 65).

GROUP 87

Agricultural Supplies

Includes:

- Animal Manure
- Forage and Feed (Hay; Manufactured Feed; Straw; Zoological Animal Food)
- Fertilizer
- Peat Moss
- Seeds and Nursery Stock, including Cut Flowers

GROUP 88

Live Animals

GROUP 89

Subsistence

Includes:

- Bakery and Cereal Products
- Beverages
- Composite Food Packages
- Condiments
- Dairy Foods
- Eggs
- Fruits and Vegetables
- Meat, Poultry, and Fish
- Soups and Bouillons
- Sugar, Confectionery, and Nuts

GROUP 91

Fuels, Lubricants, Oils, and Waxes

Includes:

- Charcoal
- Coke
- Cordwood
- Fuel Oils
- Gasoline
- Jet Fuel
- Kerosene
- Miscellaneous Waxes, Oils, and Fats (Animal, Vegetable, and Petroleum Waxes; Lanolin; Tallow; Essential Oils)
- Oils and Greases: Cutting, Lubricating, and Hydraulic

Excludes:

- Edible Fats and Oils (Group 89)
- Household and Automobile Waxes (Group 79)

GROUP 93

Nonmetallic Fabricated Materials

Includes:

- Cork Fabricated Basic Materials
- Glass Fabricated Materials (Glass Rods, Bars, and Tubing; Structural and Building Glass; Glass Blocks)
- Manufactured Mica
- Paper and Paperboard
- Plastics Fabricated Materials
- Pottery Supplies
- Refractories and Fire Surfacing Materials
- Rubber Fabricated Materials

Excludes:

- Cable, Fiber Optic (Group 60)
- Construction Paper (Group 56)
- Glass Insulators (Group 59)
- Wrapping Paper (Group 81)

GROUP 94

Nonmetallic Crude Materials

Includes:

- Agricultural and Forestry Products (Cereal Grains; Sugar Crops; Crude Rubber)
- Animal Products, Inedible (Feathers and Downs; Ivory; Bristles; Hides and Fur Skins, Crude)
- Fibers: Vegetable, Animal, and Synthetic (Cotton, Wool, Silk, Horsehair, Rayon, and Nylon Fibers)
- Plant Materials (Flavoring Materials; Crude Drugs of Plant-Origin)

GROUP 95

Metal Bars, Sheets, and Shapes

Includes:

- Bars and Rods
- Plate, Sheet, Strip, Foil, and Leaf (Armor Plate; Floor Plate; Leaf; Perforated Sheet and Strip; Shim Stock)
- Structural Shapes (Angles; Channels; I Beams; Metal Piles and Piling; Tees; Zees)
- Wire, Nonelectrical

Excludes:

- Bale Ties and Baling Bands (Group 81)
- Mounting Plates (Group 53)
- Rods for Wire (Group 96)
- Sheet Bar (Group 96)
- Threaded Rods (Group 53)
- Wire having electrical resistivity or conductivity rating (Group 61)

GROUP 96

Ores, Minerals, and Their Primary Products

Includes:

- Alloying Additive Metal Materials (materials added to metals to improve their characteristics (e.g., lead added to steel to improve the machinability) (Aluminum, Antimony, Copper, and Others)
- Iron and Steel Primary and Semifinished Products (Ingots; Pigs; Billets; Rods for Wire; Sheet Bar; Tube Rounds)
- Minerals, Natural and Synthetic (Clays and other Earths; Mica; Asbestos; Graphite)

- Nonferrous Base Metal Refinery and Intermediate Forms (Ingots; Slabs)
- Ores
- Precious Metals Primary Forms (Bullion; Ingots)

Excludes:

- Abrasives (Group 53)
- Fuel Inhibiting Additives (Group 68)
- Gravel (Group 56)
- Refractory Clays (Group 93)
- Sand (Group 56)

GROUP 9999

Export Control/High Risk – General