

Material Group Codes

Material Group Codes by Number

SNS Service Groups

Group/Title

SNSA	SNS Construction AE/CM
SNSB	SNS Services
SNSC	SNS Research & Development
SNSD	SNS A&E Title 1 or 2
SNSE	SNS A&E Title 3
SNSF	SNS Construction Other
SNSG	SNS Emergency Requirements – Services
SNSL2	SNS Individual Personal Services
SNSM2	SNS Individual Personal Services – Human Resources Approval
SNSO2	SNS Individual Consultant
SNSP2	SNS Individual Consultant – Human Resources Approval
SNSTA	SNS Task Authorization

SNS Material Groups

Group/Title

7	SNS Commercial Commodities <\$100K
710	SNS Commodities – Accountable/Sensitive
720	SNS Commodities >\$100K
730	SNS Commodities – Emergency Requirements
731	SNS Commodities – Emergency Requirements – Accountable/Sensitive
740	SNS Commodities – Radioactive
750	SNS Commodities – Precious Metals
760	SNS Commodities – Ammunition/Explosives
780	SNS Commodities – Packaging/Packing Supplies
799	SNS Commodities – High Risk

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
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
J	Maintenance, Repair, and Rebuild Services
K	Modification of Equipment
L	Individual Personal Services
M	Individual Personal Services with Human Resources Approval
MPO	Memorandum Purchase Order
N	Installation of Equipment
O	Individual Consultant
OIGT	Other Government Transfer
ORIS	ORISE
P	Individual Consultant – Human Resources Approval
Q	Medical Services
R	Professional, Administrative, and Management Services
S	Utilities
T	Photographic, Mapping, Printing, and Publication Services
U	Education and Training Services
V	Transportation, Travel, and Relocation Services
X	Lease/Rental – Facilities
Z	Maintenance, Repair, and Alteration of Real Property

ORNL Material Groups

Group Title

1W	Warranty Returns
10	Leases of Equipment
13	Weapons, Ammunition, and Explosives
20	Ships and Marine Equipment
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
3610	Printing, Duplicating, and Bookbinding Equipment
37	Agricultural Machinery and Equipment

38	Construction, Mining, Excavating, and Highway Maintenance Equipment	7026	Computer Accessories
39	Materials Handling Equipment	7027	PDA/Handheld
40	Rope, Cable, Chain, and Fittings	7028	Printer, Computer
41	Refrigeration, Air Conditioning, and Air Circulating Equipment	7099	Computer, Export Controlled
42	Safety, Environmental Protection, Fire Fighting, and Rescue Equipment	71	Furniture
43	Pumps and Compressors	72	Household and Commercial Furnishings and Appliances
44	Furnace, Steam Plant, and Drying Equipment; and Nuclear Reactors	73	Food Preparation and Serving Equipment
45	Plumbing, Heating, and Waste Disposal Equipment	74	Office Machines
46	Water Purification and Sewage Treatment Equipment	7490	Duplicating/Printing Equipment
47	Pipe, Tubing, Hose, and Fittings	75	Office Supplies
48	Valves	76	Books, Maps, and Other Publications
49	Maintenance and Repair Shop Equipment	77	Musical Instruments
51	Tools	7730	Audio and Video Equipment
53	Hardware and Abrasives	78	Recreational and Athletic Equipment
54	Prefabricated Structures and Scaffolding	79	Cleaning Equipment and Supplies
55	Lumber, Millwork, Plywood, and Veneer	80	Brushes, Paints, Sealers, and Adhesives
56	Construction and Building Materials	81	Containers, Packaging, and Packing Supplies
58	Communication and Detection Equipment; Lasers and Masers	84	Clothing, Tents, Textiles
5860	Radiation Devices	87	Agricultural
59	Electrical and Electronic Equipment Components	88	Live Animals
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62	Lighting Fixtures and Lamps	93	Nonmetallic Fabricated Materials
63	Alarm, Signal and Security Detection Systems	94	Nonmetallic Crude Materials
64	Consumer Electronics	95	Metal Bars, Sheets, and Shapes
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6850	Controlled Substances, DEA Schedules III- V		
69	Training Aids and Devices		
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Material Group Descriptions

SNS MATERIAL GROUPS

Group 7

SNS Commercial Commodities <\$100K

Group 710

SNS Commodities – Accountable/Sensitive

Group 720

SNS Commodities >\$100K

Group 730

SNS Commodities – Emergency Requirements

Group 731

SNS Commodities – Emergency Requirements – Accountable/Sensitive

Group 740

SNS Commodities – Radioactive

Group 750

SNS Commodities – Precious Metals

Group 760

SNS Commodities – Ammunition/Explosives

Group 780

SNS Commodities – Packaging/Packing Supplies

799

SNS Commodities – High Risk

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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
- Torpedos

GROUP 20

Ships and Marine Equipment

Includes:

- Barges and lighters
- Boat Motors
- Small craft (lifesaving boats, pneumatic boats, fishing vessels)
- 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

Excludes Life rafts (Group 42)

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 (Semitrailers; Semitrailer 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; Nonvehicular 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 20)
- Wrecking Bars (Group 51)

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 64

Consumer Electronics

Includes:

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 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 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 Bouillions
- 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