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H2

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SB 708-21

FEDERAL SUPPLY CLASSIFICATION

Groups and Classes

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INTRODUCTION

The FEDERAL SUPPLY CLASSIFICATION (FSC) and its Indexes have been developed and adopted by the Office of the Secretary of Defense for use in classifying items of supply identified under the Federal Cataloging Program.

The FSC is a commodity classification designed to serve the functions of supply and is sufficiently comprehensive in scope to permit the classification of all items of personal property. In order to accomplish this, groups and classes have been established for the universe of commodities, with emphasis on the items known to be in the supply systems of the Federal Government.

The structure of the FSC, as presently established, consists of ***78*** groups, which are subdivided into ***646*** classes. The Federal Supply Group (FSG) identifies, by title, the commodity area covered by classes within the group. Each class covers a relatively homogeneous area of commodities, in respect to their physical or performance characteristics, or in the respect that the items included therein are such as are usually requisitioned or issued together, or constitute a related grouping for supply management purposes.

Groups 21, 27, 33, 50, 57, 64, 82, 86, 90, 92, 97, and 98 are currently unassigned.

The FSC utilizes a four-digit coding structure. The first two digits of the code number identify the group, and the last two digits of the code number identify the classes within each group. Code numbers are so assigned as to make it possible to expand the number of groups and classes as that becomes necessary. In most instances gaps have been left within each group, between the numbers assigned to adjacent classes, to permit the insertion of new classes in logical sequence, when necessary, because of technological advances or to accomplish other desirable additions and changes.

The primary application of the FSC code number is in the National Stock Number (NSN). The NSN for an item of supply consists of the applicable four-digit FSC code number plus the nine-digit National Item Identification Number (NIIN).

The Federal Supply Classification Cataloging Handbook, H2, presents the classification structure of the FSC, showing all groups and classes listed in the arrangement of the four-digit FSC code-numbering system. Where appropriate, the main inclusions and exclusions, which delimit the coverage of a particular class, are shown immediately following the title for the class.

Cataloging Handbook H6, the alphabetic index of item names, includes a reference to FSC following each Approved Item Name.

Changes to the Federal Supply Classification System are published as Letters for Distribution C/F. They are available on the World Wide Web (WWW) at ***http://www.dlis.dla.mil/fiigs***.

Revisions are produced as required.

The H2 is available on the WWW at ***http://www.dlis.dla.mil/pdfs/h2.pdf*** under Publications

Additions or revisions to a Group or Class, appearing for the first time in this publication, are displayed in ***blue bold italic***.

Further information on the Federal Supply Classification appears in Volume 3 of the Department of

Defense, Federal Logistics Information System (FLIS) Procedures Manual, DoD 4100.39-M.

Data contained in this publication was extracted from the DLIS Data Base and is current as of date of extract.

Comments and suggestions regarding the Federal Supply Classification Cataloging Handbook should be addressed to the :

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FEDERAL SUPPLY CLASSIFICATION

Groups and Classes

GROUP 10
Weapons

Note-This group includes combat weapons as well as weapon-like noncombat items, such as line throwing devices and pyrotechnic pistols. Also included in this group are weapon neutralizing equipment, such as degaussers, and deception equipment, such as camouflage nets. Excluded from this group are fire control and night devices classifiable in groups 12 or 58.

1005 Guns, through 30mm
Includes Machine Guns; Brushes, Machine Gun and Pistol.
Excludes Turrets, Aircraft.

1010 Guns, over 30mm up to 75mm
Includes Breech Mechanisms; Mounts; Grenade Launchers for Integral-Cartridge Grenades, Single-Shot or Auto-Loading or Automatic-Firing.

1015 Guns, 75mm through 125mm
Includes Breech Mechanisms; Mounts; Rammers.

1020 Guns, over 125mm through 150mm
Includes Breech Mechanisms; Power Drives; Gun Shields.

1025 Guns, over 150mm through 200mm
Includes Firing Platforms; Mounts; Gun Shields.

1030 Guns, over 200mm through 300mm
Includes Gun Yokes; Rammers; Reflectors.

1035 Guns, over 300mm
Includes Breech Mechanisms; Training Gears; Power Drives.

1040 Chemical Weapons and Equipment
Includes Flame Throwers; Smoke Generators.

1045 Launchers, Torpedo and Depth Charge
Includes Depth Charge Tracks; Torpedo Tubes.

1055 Launchers, Rocket and Pyrotechnic
Includes Airborne Rocket Launchers adaptable to guided missile use.
Excludes Specifically designed Airborne Guided Missile Launchers; Jettisonable Rocket Launchers; Launcher Fairings designed for specific airframes; Rifle Grenade Launchers; Grenade Launchers for Integral-Cartridge Grenades, Single-Shot or Auto-Loading or Automatic Firing.

1070 Nets and Booms, Ordnance
Note-This class includes nets and booms for harbor defense only.

1075 Degaussing and Mine Sweeping Equipment

1080 Camouflage and Deception Equipment
Includes Dummy Artillery, Aircraft and Vehicles; Garnished Nets.

1090 Assemblies Interchangeable Between Weapons in Two or More Classes
Includes Components and Accessories used on or with weapons falling in two or more classes of Group 10.

1095 Miscellaneous Weapons
Includes Line Throwing Guns; Catapult Guns; Bayonets; Saluting Guns; Signal Guns; Flare Guns; Barrage Balloons; Accessories, not elsewhere classifiable, for weapons in this group; Expendable Bomb Dispensers.

GROUP 11
Nuclear Ordnance

Note-This group includes, in particular, nuclear ordnance training weapons, practice ballistic units, and all components specially designed therefor, when not specifically classified elsewhere. Also included in the group

are specially designed simulators and mock-ups, which are integral parts of the above. Excluded from this group are general purpose nose cones, case sections, flare sections or center sections designed to carry payloads other than nuclear and/or for use on a missile, rocket, or re-entry vehicle to attain the necessary aerodynamic configuration.

1105 Nuclear Bombs

Note-This class includes nuclear weapons (including bombs), which are designed to be dropped from an aircraft.

Includes Ballistic cases, tail assemblies, retardation devices, and other peculiar components which are not classifiable elsewhere.

Excludes Parachute canopies and canopy hardware.

1110 Nuclear Projectiles

Note- This class includes nuclear weapons which are designed to be propelled from a recoilless rifle, gun, howitzer, or the like, and which are not designed to be self-propelled.

Includes Ogive sections, body sections, bases, and other peculiar components which are not classifiable elsewhere.

1115 Nuclear Warheads and Warhead Sections

Note This class includes nuclear warheads (without or assembled with case sections, adaption kits, and/or fuzing and firing components) which are to be used in or with bombs, rockets, projectiles, missiles, demolition charges, or the like. Also includes case sections, nose cones, flare sections, center sections, and auxiliary structural components of missiles, rockets, and re-entry vehicles which are designed or constructed for exclusive use with or for housing of nuclear warheads and/or warhead sections.

Includes Components and parts peculiar to the warhead or warhead section, which are not classifiable in more specific classes.

Excludes Such components as fuzing and firing devices, nuclear components, high explosive components, classifiable in more specific classes, and items such as projectiles and bombs which include the entire outer case of a weapon.

1120 Nuclear Depth Charges

Note-This class includes nuclear weapons which consist of depth charge bodies assembled with nuclear warheads. It includes training weapons and all specially designed components which are not classifiable elsewhere.

1125 Nuclear Demolition Charges

Note-This class includes nuclear weapons which are designed to be emplaced in or near a structure, area, or the like, which is to be destroyed. The weapons may include accessories.

Includes Outer cases, case sections, and other peculiar components, which are not classifiable elsewhere.

1127 Nuclear Rockets

Note-This class includes nuclear weapons, consisting of rocket bodies assembled with nuclear warheads, which comprise a single item of supply and are issued as such.

Includes Components peculiar to assembled rockets which are not classifiable elsewhere.

Excludes Rocket Motors; Warhead Components; Rocket Components classified in other FSC classes.

1130 Conversion Kits, Nuclear Ordnance

Note-This class includes collections of items used for the purpose of converting nuclear weapons from one configuration to another.

1135 Fuzing and Firing Devices, Nuclear Ordnance

Includes such items as fuzes, power supplies, firing sets, x-units, cables, safing devices, adaption kits, and re-entry vehicle nuclear ordnance arming and fuzing systems.

1140 Nuclear Components

Includes All components which contain or simulate nuclear active materials.

Excludes end items, such as bombs, projectiles, warheads, and the like.

1145 Explosive and Pyrotechnic Components, Nuclear Ordnance

Note-This class includes actual and simulated explosive and pyrotechnic components peculiar to all nuclear ordnance end items, such as bombs, demolition charges, rockets, projectiles, warheads, and related systems. Excluded from this class are all explosive and pyrotechnic components designed for other than nuclear ordnance applications.

1190 Specialized Test and Handling Equipment, Nuclear Ordnance

Includes Specially designed trucks and trailers for nuclear ordnance; Specially designed slings and hoists; Operational, test, and setting devices, and cradles; Conditioning Kits and Sets, Controlled Environment.

Excludes Hand tools; Instruments for use on both nuclear ordnance and other equipment; Basic types of electrical and electronic test instruments, including those specially designed, such as ammeters, voltmeters, ohmmeters, multimeters, and similar instruments, as shown in the indexes in the FSC.

1195 Miscellaneous Nuclear Ordnance

Includes Items common to more than one class or items not properly fitting into the foregoing classes of nuclear ordnance.

GROUP 12
Fire Control Equipment

Note-Fire control assemblies, subassemblies, and components are classified: a. In appropriate classes of this group when: (1) Designed for multiple applications to different kinds of fire control equipment. (2) Modified for use with guided missile remote control systems. (3) Designed specifically for shipborne guided missile remote control systems. (4) Radar equipment, designed specifically for fire control systems. (5) Both day and night viewing characteristics are incorporated into an integral unit. b. In Class 1270 or 1280, when designed specifically for aircraft gunnery or aircraft bombing fire control, respectively. c. In Class 1430, when designed specifically for guided missile remote control systems, except shipboard type. d. In appropriate classes of Group 58, when designed for multiple applications to both fire control and communication equipment. e. In appropriate classes of Group 58 when designed for night vision.

1210 Fire Control Directors

1220 Fire Control Computing Sights and Devices

1230 Fire Control Systems, Complete

Note-This class includes only complete fire control systems. Anything less than a complete system, such as individual end items, assemblies, parts, attachments, or accessories for use in fire control systems are classified in classes other than this class.

1240 Optical Sighting and Ranging Equipment

Includes Periscopes for Submarines; Range and Height Finders; Telescopic Sights; Optical Instruments Integrated with Fire Control Equipment.

1250 Fire Control Stabilizing Mechanisms

1260 Fire Control Designating and Indicating Equipment

Includes Turret, Gun, Torpedo Mount, and Searchlight Indicating Equipment; Target Designating Equipment; Synchro Systems.

1265 Fire Control Transmitting and Receiving Equipment, except Airborne

Includes Fire Control Transmitters, Transmitter-Receivers, Receivers, Receiver-Regulators.

Excludes Fire Control Transmitting and Receiving Equipment, Specially Designed for use on or with Fire Control Radar Equipment.

1270 Aircraft Gunnery Fire Control Components
Includes Turrets, Aircraft; Computers, specifically designed; Complete Gyro Mechanisms.
Excludes Gun Chargers; Ammunition Boxes; Gun Heaters; Field and Link Chutes; Ammunition Boosters; Gyro Components; Complete Fire Control Systems.

1280 Aircraft Bombing Fire Control Components
Includes Computers, specifically designed; Complete Gyro Mechanisms; Optical Instruments for Bombing Fire Control.
Excludes Gyro Components; Optical Elements, such as Lens, Prisms, Filters.

1285 Fire Control Radar Equipment, except Airborne
Includes Radar Sets, Assemblies, Subassemblies, and Components Specially Designed for use on or with Fire Control Equipment.

1287 Fire Control Sonar Equipment
Note-This class includes airborne, shipborne, and submarineborne sonar sets, assemblies, subassemblies, and components designed specificially for use with underwater fire control equipment.

1290 Miscellaneous Fire Control Equipment
Includes Fuze Setters; Ordnance Cable Systems; Aiming Circles; Flash and Sound Ranging Sets; Fire Control Components and Subassemblies Not Classifiable in Other Classes of Group 12.

GROUP 13
Ammunition and Explosives

Note-Excluded from this group are items specially designed for nuclear ordnance application.

1305 Ammunition, through 30mm
Includes Components.

1310 Ammunition, over 30mm up to 75mm
Includes Components, except Fuzes and Primers; Chemical Warfare Cartridges.
Excludes Fuzes and Primers.

1315 Ammunition, 75mm through 125mm
Includes Components, except Fuzes and Primers; Pyrotechnic Cartridges and Projectiles; Chemical Warfare Cartridges and Projectiles.
Excludes Fuzes and Primers.

1320 Ammunition, over 125mm
Includes Components, except Fuzes and Primers; Chemical Warfare Projectiles.
Excludes Fuzes and Primers.

1325 Bombs
Includes Components; Photoflash Bombs; Chemical Warfare Bombs; Bomb Clusters.

1330 Grenades
Includes Components; Hand and Rifle Grenades; Smoke Grenades.
Excludes Firing Devices (Launchers).

1336 Guided Missile Warheads and Explosive Components
Includes Warheads Containing Military Chemical Agents; Exercise Heads, Guided Missile.
Excludes Atomic Ordnance Warheads; All other Warheads for use on other than guided missiles; Liquid Propulsion Units; Rocket Engines (Liquid Propellant Units); JATO Units; Rocket Motors (Solid Propellant Units) for Guided Missiles; Solid Fuel Propulsion Units; Propellant Chemicals encased in consumable containers, such as squibs and cartridges for insertion into missile propulsion systems as integral parts.

1337 Guided Missile and Space Vehicle Explosive Propulsion Units, Solid Fuel; and Components
Includes Rocket Motors (Solid Propellant Units) for Guided Missiles, Explosive-Loaded; All Explosive Components for Guided Missile and Space Vehicle Solid Fuel Propulsion Units; Solid Propellants

encased in consumable containers, such as squibs and cartridges, intended for insertion into missile propulsion systems as integral parts.

Excludes Rocket Motors (Solid Propellant Units) for Guided Missiles, Inert-Loaded or Empty; All Inert (Nonexplosive) Components for Guided Missile and Space Vehicle Solid Fuel Propulsion Units; Guided Missile Warheads and Components; Rocket Propulsion Units; Rocket Motors (Solid Propellant Units) for Rockets; Solid Propellants predetermined to specific quantity and quality, but packaged in reusable containers.

1338 Guided Missile and Space Vehicle Inert Propulsion Units, Solid Fuel; and Components

Includes Rocket Motors (Solid Propellant Units) for Guided Missiles, Inert-Loaded or Empty; All Inert (Nonexplosive) Components for Guided Missile and Space Vehicle Solid Fuel Propulsion Units.

Excludes Rocket Motors (Solid Propellant Units) for Guided Missiles, Explosive-Loaded; Guided Missile Warheads and Components; Rocket Propulsion Units; Rocket Motors (Solid Propellant Units) for Rockets.

1340 Rockets, Rocket Ammunition and Rocket Components

Includes Complete Rounds; Explosive Components, Including Warheads; Pyrotechnic Rockets; Solid Fuel JATO Units; Rocket Motors (Solid Propellant Units) for Rockets; Covers, Protective Rocket Warhead; Jettisonable Rocket Launchers; Conditioning Kits and Sets, Controlled Environment; and other peculiar components which are not classified elsewhere.

Excludes Nuclear rockets, Nuclear warheads; all other warheads for use on other than rockets; and rockets with built-in guiding devices.

1345 Land Mines

Includes Components; Antipersonnel Mines; Antitank Mines; Fuzes.

1346 Remote Munitions

Munitions items/systems that are not held by the soldier but are deployed for future activation. They may be put in place separately by the soldier or delivered from vehicles or aircraft by mechanical distribution methods. They may be command controlled or may use self - initiated firing systems that do not require soldier monitoring. All items in this class can be armed/disarmed remotely.

Remote Munition Items and Systems used singularly or in combination to defeat a variety of threats; Fuzes; Safe and Arming devises; Self Destruction Mechanisms; Communication Modules; Command and Control systems and various other pertinent components.

1350 Underwater Mine and Components, Inert

Includes Parachute Packs; Inert Mine Cases; Booster Cans; Clock Delays; Clock Starters; Search Coils; Extenders.

1351 Underwater Mines and Components, Explosive

Includes Loaded Cases; Boosters; Detonators.

1352 Underwater Mine Disposal Inert Devices

Note: Version of Underwater Mine Disposal Explosive Device without destructive charge. Intended for underwater mine hunting and reconnaissance. May also be used for training purposes.

Includes: Complete operating units, such as an underwater mine reconnaissance device, as well as component parts, practice, training, blank, and dummies.

Excludes: Torpedo Inert components, depth charges, and underwater mines.

1353 Underwater Mine Disposal Explosive Devices

Note: Complete explosive devices, including destructive charge. It is fired, guided to target and detonated from a vessel or other remote site.

Includes Complete explosive device, including ammunition, detonating charge,

and component parts.
Excludes Underwater Mine Explosive Components (FSC 1351), Torpedo Explosive Components (FSC 1356), Military Chemical Agents (FSC 1365).

1355 Torpedos and Components, Inert

1356 Torpedos and Components, Explosive
Includes Warheads; Boosters; Detonators.

1360 Depth Charges and Components, Inert
Includes Inert Firing Mechanisms; Pistols without Detonators; Extenders.

1361 Depth Charges and Components, Explosive
Includes Cases; Boosters; Detonators.

1365 Military Chemical Agents
Includes War Gases; Screening Smokes; Incendiary and thickening Agents; Signaling Smokes.
Excludes Ammunition containing Military Chemical Agents.

1367 Tactical Sets, Kits, and Outfits
A collection of items, which are used for a specific purpose. Each collection must include at least one item of ordnance classified in Group 13. Ordnance may be non-lethal (as defined in the Department of Defense Directive 3000.3). These sets, kits and outfits may include such items as uniforms, weapons, body armor, and the like. By themselves, each of these components belongs in an FSC other than 1367.

1370 Pyrotechnics
Includes Flares; Signals; Fireworks; Pistol Rocket Signals.
Excludes Pyrotechnic Cartridges and Projectiles; Photoflash Bombs; Pyrotechnic Rockets.

1375 Demolition Materials
Includes 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; Booby Trap Mechanisms; Bangalore Torpedoes; Inert accessories and components such as Blasting Machines, Priming Adapters, and Detonating Cord Clips.
Excludes Liquid Propellant Fuels and Oxidizers; Solid Propellants encased in consumable containers, for insertion into missile propulsion systems as integral parts; Guided Missile Explosive Devices; Safety-in-Flight Explosive Items and Devices such as, Impulse Cartridges, Delay Cartridges, Aircraft Ejection Seat Catapults, Aircraft Canopy Removers, and similar items, as shown in the indexes to the FSC, Solid Propellants, predetermined to specific quantity and quality, packaged in reusable containers; Nuclear Ordnance Components; Rocket and Guided Missile Motors, Warheads, and Propulsion Sections.

1376 Bulk Explosives
Includes Solid Propellants, predetermined to specific quantity and quality, packaged in reusable containers; Explosive Loaded Devices and Components as shown in the indexes to the FSC.
Excludes Liquid Propellant Fuels and Oxidizers; Solid Propellants encased in consumable containers, for insertion into missile propulsion systems as integral parts; Guided Missile Explosive Devices; Blasting and Demolition Materials; Safety-in-Flight Explosive Items and Devices such as Impulse Cartridges, Delay Cartridges, Aircraft Ejection Seat Catapults, Aircraft Canopy Removers; Rocket and Guided Missile Motors, Warheads, and Propulsion Sections; similiar items, as shown in the indexes to the FSC.

1377 Cartridge and Propellant Actuated Devices and Components
Note-This class includes safety-in-flight explosive items, consisting of a quantity of propellant (either encased in a cartridge or in molded form) and a means of activation, designed to be inserted into or attached to one or more devices to

provide the energy required to operate devices requiring a time delay, or not requiring a time delay, in their operating sequence. Also included are devices designed to utilize energy generated by the items described above.
Includes Impulse Cartridges; Delay Cartridges; Engine Starter Cartridges (explosive filled); Fire Extinguisher Cartridges (used to activate by remote control); Aircraft Ejection Seat Catapults; Rocket Motors (Solid Propellant Units) for Aircraft Ejection Seats; Aircraft Canopy Removers; Thrusters, propellant and cartridge actuated; Initiators; Explosive Bolts and Explosive Bolt Cartridges; Cutters, cartridge or propellant actuated, Reefing Line; Powder actuated Tool Cartridges; Explosive Loaded Devices and Components which are not specifically classified elsewhere.
Excludes Liquid Propellant Fuels and Oxidizers; Solid Propellants, encased in consumable containers for insertion into missile propulsion systems as an integral part; Guided Missile Explosive Devices; Bulk and Solid Propellants, predetermined to specific quantity and quality, packaged in reusable containers; Blasting and Demolition Materials; Rocket Motors, Warheads and Propulsion Sections for Rockets and Guided Missiles.

1385 Surface Use Explosive Ordnance Disposal Tools and Equipment
Note-This class includes only specialized tools and equipment developed for and used by qualified Explosive Ordnance Disposal (EOD) personnel.
Excludes Nonspecialized or common tools and equipment not developed exclusively for use by qualified EOD personnel; specialized demolition material; explosive loaded shaped charges.

1386 Underwater Use Explosive Ordnance Disposal and Swimmer Weapons Systems Tools and Equipment
Note-This class includes only specialized tools and equipment developed for and used by qualified Explosive Ordnance Disposal (EOD), personnel, Underwater Demolition Teams (UDT), and/or Sea-Air-Land (SEAL) personnel
Excludes Nonspecialized or common tools not developed exclusively for use by qualified EOD, UDT, and/or SEAL personnel; specialized demolition material; explosive loaded shaped charges

1390 Fuzes and Primers
Note-This class includes only fuzes and primers for use in ammunition classified in Classes 1310, 1315, and 1320.
Excludes Fuzes and Primers for ammunition not classified in Classes 1310, 1315, and 1320.

1395 Miscellaneous Ammunition
Includes Ammunition Shapes, such as Blanks, Disks, Slugs, Cups, and Rotating Bands (Shell Bands).

1398 Specialized Ammunition Handling and Servicing Equipment
Includes Handling and servicing equipment specially designed for use on or with rockets and conventional ammunition.
Excludes Handling and servicing equipment specially designed for use on or with rocket and pyrotechnic launchers; Ammunition maintenance and repair shop specialized equipment; Handling equipment specially designed for aircraft or airfield use.

GROUP 14
Guided Missiles

Note-This group includes missiles (with or without warheads or explosive components) incorporating mechanisms capable of altering normal flight paths. Radar and infrared assemblies and components designed specifically for use with guided missiles are classified in the appropriate classes of this group. Excluded from this group are case sections, nose cones, flare sections, center sections, warheads, explosive components, rockets, and auxiliary components of missiles and reentry vehicles which are designed or constructed for exclusive use with or for housing of nuclear warheads and/or warhead sections. Also ex-

cluded are space vehicle nose cones and space capsules specifically designed to carry loads peculiar to space research and space travel.

1410 Guided Missiles

Note-This class includes only complete guided missiles, with or without warheads and explosive components, whether in assembled or unassembled form. End items, assemblies, parts, attachments, or accessories for use in or on guided missiles are classified in classes other than this class.

Includes Complete Drones, initially designed as missiles, but converted to drone use.

1420 Guided Missile Components

Includes Structural Components; Components and Accessories Specially Designed for use on or with guided missiles, including Complete Gyro Mechanisms, Hydraulic Pumps, Automatic Pilot Mechanisms and Specially Designed Assemblies, and Electronic Guidance Equipment installed in missiles.

Excludes Electronic Remote Guidance Equipment used to guide missiles; Solid and Liquid Propellant Units; Components of Gyro Mechanisms.

1425 Guided Missile Systems, Complete

Note-This class includes only complete guided missile systems. Anything less than a complete system, such as individual end items, assemblies, parts, attachments, or accessories for use in guided missile systems are classified in classes other than this class.

Excludes Guided Missile Subsystems.

1427 Guided Missile Subsystems

Note-This class includes only combinations or assemblies of two or more end items, each of which is properly classified in other classes of this group, identified as single items of supply. Excluded from this class are individual end items, assemblies, subassemblies, attachments, accessories or parts classified in other classes of this group, not combined as single items of supply.

Excludes Complete Guided Missile Systems.

1430 Guided Missile Remote Control Systems

Note-This class includes airborne and nonairborne guided missile remote control systems, components, and accessories, designed specifically for use therewith. Excluded from this class are fire control assemblies, subassemblies, and components modified for use with guided missile remote control systems, and fire control assemblies designed specifically for shipboard use.

Includes Specially Designed Components of Guided Missile Remote Control Systems.

Excludes Guided Missile Internal (Built-in) Control Systems; Components used in both guided missiles and other than guided missiles (including fire control components).

1440 Launchers, Guided Missile

Includes Airborne and Nonairborne Guided Missile Launchers.

Excludes Aircraft Launchers; Rocket Launchers.

1450 Guided Missile Handling and Servicing Equipment

Includes Specially Designed Trucks and Trailers for use in transporting guided missiles; Specially Designed Slings, Hoists, Jacks, and Blowers; Self-propelled Vehicles and Trailers, Specially Designed for Guided Missile Handling or Servicing; Covers, Guided Missile; Conditioning Kits and Sets, Controlled Environment.

Excludes Guided Missile Launchers (FSC 1440); Aircraft Handling and Servicing Equipment (FSC 1730).

GROUP 15
Aircraft and Airframe Structural Components

1510 Aircraft, Fixed Wing
Note-This class includes only complete aircraft. End items, assemblies, parts, attachments, or accessories for use in or on fixed wing aircraft are classified in classes other than this class.

1520 Aircraft, Rotary Wing
Note-This class includes only complete aircraft. End items, assemblies, parts, attachments, or accessories for use in or on rotary wing aircraft are classified in classes other than this class.
Includes Helicopters.

1540 Gliders
Note-This class includes only complete gliders. End items, assemblies, parts, attachments, or accessories for use in or on gliders are classified in classes other than this class.
Includes Motorized Gliders.

1550 Drones
Note-This class includes only complete drones. End items, assemblies, parts, attachments, or accessories for use in or on drones are classified in classes other than this class.
Includes Drones specifically designed for such uses as targets, training, surveillance, missile evaluation, and photographic reconnaissance.
Excludes Piloted aircraft and guided missiles converted to drone use.

1560 Airframe Structural Components
Note-This class includes fabricated system parts that are permanently attached or peculiar to the integral airframe of an aircraft, such as support structural components, spars, ribs, ailerons, stabilizers, bulkheads.
Includes Flight Control Surfaces; Internal and External Auxiliary Fuel Tanks; Exhaust Systems; Pylons, Trim Tabs; Aircraft.
Excludes Fitted Covers; Helicopter Rotor Brake System Components; Aircraft Loose Equipment and Alternate Mission Configuration Equipment stored on board the aircraft.

GROUP 16
Aircraft Components and Accessories

1610 Aircraft Propellers and Components
Includes Aircraft Propellers; Propeller Blades, Cams, Cones, Hubs, Nuts, and Spinners; Test Clubs; Synchronizers; Power Control Units; Integral Oil Control Measures and Propeller Governors.
Excludes Rotary Rudder and Rotary Wing Blades (FSC 1615).

1615 Helicopter Rotor Blades, Drive Mechanisms and Components
Note-This class includes miscellaneous component parts specifically designed for, and used exclusively in, helicopter drive mechanisms and rotor blades when not specifically classified elsewhere in the FSC indexes.
Includes Helicopter dynamic components and specially designed parts that transmit power from the aircraft power plant to the rotary wing and rotary rudder. Also included in this class are Rotors; Blades; Rotor Blade, Trim, Tabs; Blade Sets; Yokes; Clutches and Transmissions.
Excludes Propellers (FSC 1610); Rotor Brake Systems Components (FSC 1630); Rotor Blade Hydraulic Folding System Components (FSC 1650); Hydraulic Servo System Components (FSC 1650).

1620 Aircraft Landing Gear Components
Includes Shock Struts and Components; Installation Elements, such as Torsion Bars, Vibration Links, Drag Struts; Landing Gear Trunions, Axles and Shimmy Dampeners; Specially designed hydraulic power steering system components.
Excludes Mounting Braces and Mounting Plates permanently installed on aircraft (FSC 1680); Landing Wheels, Skis, and Floats (FSC 1630); Wheel Brakes and

Wheel Brake Cylinders (FSC 1630).

1630 Aircraft Wheel and Brake Systems
Includes Skis; Floats; Tracks; Landing Wheel Skid Detectors; Valves specifically designed for use with hydraulic or pneumatic wheel and brake systems; Helicopter Rotor Brake System Components.
Excludes Landing Gear Axles (FSC 1620).

1640 Aircraft Control Cable Products
Note - Wire rope, with attachments or terminations and pulleys, used in aircraft control applications, will be classified in this class.
Includes Wire Rope; Single Leg Wire Assemblies; Wire Strands; Control Pulleys; Turnbuckle Lock Clips and other wire rope attachments and terminations.
Excludes General use Chain and Wire Rope (FSC 4010); general use Pulleys (FSC 3020); general use Miscellaneous Hardware (FSC 5340); general use Fittings for Rope, Cable and Chain (FSC 4030).

1650 Aircraft Hydraulic, Vacuum, and De-icing System Components
Note-This class includes only those components specifically designed for aircraft use.
Includes Hydraulic and Pneumatic Accumulators, Pumps, Motors, Actuating Cylinders, and Filters; De-icing Boots; Fluid Type De-icing Pumps, Valves and Filters; Vacuum System Oil Separators; Pneumatic Pressurization Equipment other than that for pressurizing cabins and compartments.
Excludes Jet Engine Hydraulic Components (FSC 2840); Valves specifically designed for air conditioning, heating, ventilating, cabin pressurizing, and thermal de-icing (FSC 1660); Valves specifically designed for use with Aircraft Engines (FSC 2840); Guided Missiles and Guided Missile Engines (FSC 1338), Landing Gear (FSC 1620), Wheel and Brake System Components (FSC 1630); Oxygen Breathing System Components (FSC 1660); In-flight Refueling System Hydraulic components (FSC 1680); Specifically designed hydraulic power steering system components (FSC 1620).

1660 Aircraft Air Conditioning, Heating, and Pressurizing Equipment
Note-This class includes components specifically designed for use in aircraft air conditioning, heating, and pressurizing equipment. Also included are specially designed components of oxygen breathing systems used in aircraft.
Includes Cabin Supercharging Equipment; Canisters; Cylinder Assemblies; Masks; Fixed Oxygen System; Specially Designed Aircraft Valves; Cabin Pressure Regulators; Heat Exchangers; Air Expansion Turbines; Aircraft Heaters; Ventilating System Components; Air Conditioning and Heating Duct Assemblies; Thermal De-icing Equipment; Cabin and Compartment Pressurizing Equipment; Air Diffusers; Cabin Pressure Selectors; Liquid Oxygen Converters.
Excludes Oxygen Pressure Signals and Warning Devices; Tubing; Ground Type Heaters and Coolers; Pressurizing Equipment other than that used for Cabin and Compartment Pressurization; Fluid De-icing Equipment; Valves specifically designed for use with Aircraft Engines, Guided Missiles, and Guided Missile Engines.

1670 Parachutes; Aerial Pick Up, Delivery, Recovery Systems; and Cargo Tie Down Equipment
Note-Includes specifically designed items, sets, and systems for air-to-air, air-to-surface, and surface-to-air delivery, pick up, and recovery operations, unless parts, attachments, assemblies, for use in or on such systems (i.e., space vehicle aerial recovery systems) are specifically indexed to other classes of the FSC (i.e., Transmitting Radio Buoys and Direction Finding Subsystem Components).
Excludes Fitting Assemblies built into the aircraft structure.

1680 Miscellaneous Aircraft Accessories and Components

Includes Control Assemblies, Push-Pull; Brace, Positioning Cargo Ramp stowed on board; Cockpit Mounted Control Quadrants; Actuators, Electro-Mechanical and Mechanical; Ventilators; Relief Tubes; Map Holders; Aerial Glider Towing Accessories attached to Aircraft; Belts, Safety and Lap; Harness, Shoulder and Safety; Litter Attaching Supports-;Electric Windshield Wipers;Aircraft On-board Inert Gas Generators;Aircraft Furniture;Aircraft Mounted Winches and Hoists;In-Flight Refueling System Components, including Fuel Components;Aircraft Curtains;Cable Tension Regulators;Sun Visors;Rear-View Mirrors;Mechanical Transmissions, Gearboxes and Constant Speed drives Specially designed for aircraft.

Excludes Engine Mounted Control Assemblies; Fitted Covers, Aircraft Pylons; Helicopter Roter Brake System Components; Helicopter Automatic Stabilization Equipment.

GROUP 17
Aircraft Launching, Landing, and Ground Handling Equipment

Note-Excluded from this Group are trucks, trailers, and servicing equipment specially designed for guided missile or atomic ordnance use

1710 Aircraft Landing Equipment

Includes Aircraft Arresting Barriers.

Excludes Airport Runway Marker Lights (FSC 6220).

1720 Aircraft Launching Equipment

Includes Catapults.

Excludes Guided Missile Launchers (FSC 1440) and Space Vehicle Launchers (FSC 1840).

1730 Aircraft Ground Servicing Equipment

Note-This class excludes ″vehicular components″ such as those listed under FSC's 2520, 2530, 2540, 2590.

Includes Energizers; Engine Preheaters; Mooring Assemblies; Wheel Chocks; Beaching Equipment; Aileron, Elevator, and Rudder Locks; Passenger Loading Ramps; Maintenance Platforms; Aircraft Maintenance and Boarding Ladders; Aircraft Maintenance Slings and Hoists; Aircraft Fin Tilting Jacks; Airfield Specialized Lift Trucks and Trailers; Fitted Covers for Airframe Components; Aircraft Engine Covers.

Excludes Airfield Specialized Trucks and Trailers designed primarily for transporting aircraft assemblies (FSC 1740); Maintenance Stands designed for support of aircraft assemblies during repair or overhaul (FSC 4920); Test Stands (FSC 4920); General Purpose Jacks (FSC 5120); Slings (FSC 3940), and Hoists (FSC 3950); Trailers (FSC 2330), Liquid Oxygen, Aircraft Servicing (FSC 1660).

1740 Airfield Specialized Trucks and Trailers

Note-This class excludes ″vehicular components″ such as those listed under FSC's 2520, 2530, and 2590.

Includes Airfield Specialized Trucks and Trailers designed primarily for transporting aircraft assemblies; Trailers: Afterburner, Engine, Propeller, Fuselage, and Wing; Trucks, Aircraft Fuselage and Aircraft Wing; Skids, Engine Transport; Stands, Engine Transport; Bomb Trailers, Airfield; Trucks, Crashed Aircraft Removing.

Excludes Airfield Specialized Lift Trucks (FSC 3930), and Trailers (FSC 2330); Highway Type Trucks (FSC 2320), and Trailers (FSC 2330); Cargo Loading and Unloading Trailers (FSC 2330) and Trucks (FSC 2320).

GROUP 18
Space Vehicles

Note-This group includes space vehicles, such as space capsules, man-made moons, orbitals, satellites, space platforms, and the like, manned or unmanned. Excluded from this group are guided missiles and rockets.

1810 Space Vehicles

Note-This class includes only complete space vehicles, whether in assembled or unassembled form.

1820 Space Vehicle Components

Includes Structural Components; Components and Accessories specially designed for installation in or on Space Vehicles; Internal (Built-in) Control Systems.

Excludes Remote Guidance Equipment.

1830 Space Vehicle Remote Control Systems

Includes Specifically designed Components of Space Vehicle Remote Control Systems.

Excludes Internal (Built-in) Control Systems; Components designed for use with both Guided Missile and Space Vehicle Systems.

1840 Space Vehicle Launchers

Includes Launchers specifically designed for Space Vehicles.

Excludes Launchers used with both Guided Missiles and Space Vehicles.

1850 Space Vehicle Handling and Servicing Equipment

Note-This class does not include space vehicle aerial recovery system which are classified in Class 1670.

Includes Specially designed Trucks and Trailers for use in transporting Space Vehicles; Specially designed Slings, Hoists, Jacks, and Blowers, Self-propelled Vehicles, specially designed for space vehicle handling or servicing; Covers, space vehicle

Excludes Equipment used in handling or servicing both Guided Missile and Space Vehicles.

1860 Space Survival Equipment

Includes Food and Water Production Equipment; Air Production Equipment; Shelter Equipment; Power Generation and Conversion Equipment.

Excludes Items which are integral components of Space Vehicles.

GROUP 19
Ships, Small Craft, Pontoons, and Floating Docks

Note-Only complete ships, small craft, floating docks, floating dry docks, and dredges (with or without hull) are classified in this group. End items, assemblies, parts, attachments or accessories for use in or on the above are classified in Group 20-Ship and Marine Equipment, unless other classes (outside of Group 19) are appliable.

1905 Combat Ships and Landing Vessels

Includes Aircraft Carriers; Battleships; Cruisers; Destroyers; Submarines; Frigates and Corvettes; Gunboats; Motor Torpedo Boats; Subchasers; Landing Barges; Minelaying and Mine Sweeping Craft.

1910 Transport Vessels, Passenger and Troop

1915 Cargo and Tanker Vessels

1920 Fishing Vessels

1925 Special Service Vessels

Includes Tugs; Towboats; Fire Boats; Ice Breakers; Repair Ships; Tender Vessels (Buoy, Lighthouse, Destroyer); Lightships; Cable Ships; Salvage and Submarine Rescue Vessels.

Excludes Combat Vessels; Dredges.

1930 Barges and Lighters, Cargo

Includes Aircraft Lighters, Car Floats, and other Transportation Barges, Depot Barges; Scows.

1935 Barges and Lighters, Special Purpose

Includes Derrick, Piledriver, and Rock Cutter Barges; Barrage Balloon, Catapult Lighter, and Torpedo Testing Barges; Concrete Mixing Plant, Mechanical Bank Grader, and other Bank Revetment Barges; Fire, Smudge Removal, and other Pump Barges; Houseboats, except Yacht Type; Power Plant Barges; Refrigeration Barges; Barge Mounted Cranes, Flexible Towed Barges.

Excludes Combat Landing Barges.

1940 Small Craft
Includes Powered and Unpowered Small Craft; Lifesaving Boats; Airplane Crash Boats; Reconnaissance Boats; Yachts; Pneumatic Boats.
Excludes Fishing Craft; Life Rafts, including Pneumatic; Bridge Floats and Pontoons.

1945 Pontoons and Floating Docks
Includes Camels; Pontoon Stanchions; Pontoon Ramps.
Excludes Floating Drydocks; Bridge Floats and Pontoons; Pontoon Hardware (Jewelry).

1950 Floating Drydocks

1955 Dredges
Includes Dredges, without Hull; Ocean-Going Dredges; Floating Dredges.

1990 Miscellaneous Vessels
Includes Commercial Sailing Vessels.

GROUP 20
Ship and Marine Equipment

2010 Ship and Boat Propulsion Components
Includes Propulsion Shafts; Ship Propellers. Marine Transmissions, Reverse and Reduction Gear Type.
Excludes Engines (FSC 2810, 2815); Turbines (FSC 2825, 2835, 2840).

2020 Rigging and Rigging Gear
Includes Masts; Kingposts; Sail Booms; Shipborne Booms not attached to Cranes and Derricks.
Excludes Tackle Blocks.

2030 Deck Machinery
Includes Steering Gears and Controls; Boat Davits.

2040 Marine Hardware and Hull Items
Includes Anchors; Grapnels; Sea Anchors; Watertight Doors; Ship Ventilators; Hatches; Manholes; Scuttles; Air Ports; Fenders; Sea Chests; Scuppers; Rudders; Stern Tubes; Chain Pipes; Hawse Pipes; Boiler Uptakes and Stacks; Chocks; Mast and Boom Fittings; Oars; Paddles; Oarlocks.

2050 Buoys

2060 Commercial Fishing Equipment
Excludes Fishing Vessels.

2090 Miscellaneous Ship and Marine Equipment
Includes Sails; Chain Ladders; Rope Ladders; Marine Furniture.

GROUP 22
Railway Equipment

2210 Locomotives
Note-This class includes only complete locomotives and tenders. End items, assemblies, parts, attachments, or accessories for use in or on locomotives and tenders are classified in classes other than this class.
Excludes Self-Propelled Cars.

2220 Rail Cars
Note-This class includes only complete rail cars. End items, assemblies, parts, attachments, or accessories for use in or on rail cars are classified in classes other than this class.
Includes Trailed Cars; Self-Propelled Cars.
Excludes Aerial Tramway Cars.

2230 Right-of-Way Construction and Maintenance Equipment, Railroad
Includes Rail Laying, Joining and Shifting Equipment; Self-propelled and Car Mounted Cranes.
Excludes Hand Tools (FSG 51).

2240 Locomotive and Rail Car Accessories and Components
Includes Brake Beams and Components; Couplers; Trucks and Components; Journals and Components; Wheel Sets and Components.
Excludes Railroad Furniture (FSG 71).

2250 Track Material, Railroad

Includes Railroad Rails; Railroad Tie Plates; Railroad Turnouts and Components; Railroad Spikes.

Excludes Ballast (FSC 5610); Railroad Ties (FSC 5510).

GROUP 23
Ground Effect Vehicles, Motor Vehicles, Trailers, and Cycles

2305 Ground Effect Vehicles

2310 Passenger Motor Vehicles

Note-This class includes only complete passenger motor vehicles, and chassic therefor. Any end items, assemblies, parts, attachments, or accessories, other than complete chassis, for use in or on passenger motor vehicles are classified in classes other than this class.

Includes Cars, Motor, Highway; Busses; Chassis, Passenger Motor Vehicle; Hearses; Ambulances.

Excludes Amphibious Personnel Carriers; All Truck Chassis.

2320 Trucks and Truck Tractors, Wheeled

Note-This class includes only complete wheel mounted trucks and truck tractors, and chassis therefore. Any end items, assemblies, parts, attachments, or accessories other than complete chassis, for use in or on such trucks or truck tractors are classified in classes other than this class. The combined chassis and body of a special purpose truck, such as a machine shop, mobile laundry, or dental laboratory, is classified in this class. The complete mobile unit, consisting of chassis, body, and additional equipment, as in an equipped truck mounted machine shop, is excluded from this class.

Includes Panel, Delivery and Pick Up Trucks, Military Cargo Carrying Vehicles, including Wheel Mounted Amphibian Vehicles; Truck Tractors and Trailer Combinations.

Excludes Fire Trucks; Special Construction Type Earth and Rock Hauling Trucks; Motorized Air Compressors; Motorized Concrete Mixers; Construction Specialized Machinery Generally; Specially designed trucks for use in and around airfields, hangers, and warehouses; Vehicles specifically designed and/or modified for combat, assault, and tactical situations. Tracked and Halftracked Vehicles. Wheeled Self-Propelled Combat, Auuault, and Tactical Vehicles with or without amphibian capabilities; Armored Wheeled Vehicles; Self Propelled Wheeled Sleds; and Self-Propelled Wheeled Flame Throwers.

2330 Trailers

Note-This class includes only complete trailers, and chassis therefor. Any end items, assemblies, parts, attachments, or accessories, other than complete chassis, for use in or on trailers are classified in classes other than this class. The combined chassis and body of a special purpose trailer, such as a machine shop, mobile laundry, or dental laboratory, is classified in this class. The complete mobile unit, consisting of chassis, body, and additional equipment, as in an equipped trailermounted machine shop, is excluded from this class.

Includes Semitrailers; Semitrailer Dollies; Cargo Trailers; Passenger and House Trailers; Special Purpose Trailers, such as Ammunition.

Excludes Fire Fighting Trailers; Specially designed trailers for use in and around airfields, hangers, and warehouses.

2340 Motorcycles, Motor Scooters, and Bicycles

Note-This class includes only complete motorcycles, complete motor scooters, and complete bicycles. End items, assemblies, parts, attachments, or accessories for use in or on motorcycles, motor scooters, or bicycles are classified in classes other than this class.

Includes Sidecars; Tricycles.

Excludes Children's Wheeled Goods.

2350 Combat, Assault, and Tactical Vehicles, Tracked

Note-This class includes only complete combat, assault, and tactical tracked vehicles, and chassis. Any end items, assemblies, parts, attachments, or accessories, other than complete chassis, for use in or on such vehicles are classified in classes other than this class.

Includes Tanks and Tracked Self-Propelled Weapons and Vehicles with or without amphibian capabilities; Armored Halftracks; Self-Propelled Sleds; and Self-Propelled Flame Throwers.

Excludes Wheel Mounted Vehicles.

2355 Combat, Assault and Tactical Vehicles, Wheeled

Note-This class includes only complete combat, assault, and tactical wheeled vehicles and chassis. Any end items, assemblies, parts, attachments, or accessories, other than complete chasis, for use in or on such vehicles are classified in classes other than this class.

Includes Wheeled Self-Propelled Weapons and combat vehicles with or without amphibian capabilities; Armored Wheeled Vehicles; Self-Propelled Wheeled Sleds; and Self-Propelled Wheeled Flame Throwers.

Excludes Track Mounted Vehicles not specifically designed for combat, assault, tactical situations; Passenger Motor Vehicles (FSC 2310)

GROUP 24
Tractors

Note-This group includes only complete tractors and tractor chassis. Assemblies, subassemblies, parts, attachments or accessories are excluded from this group.

2410 Tractor, Full Tracked, Low Speed

Note-This class includes only complete low speed, full track tractors, and chassis. Any end items, assemblies, parts, attachments, or accessories, other than complete chassis, for use in or on low speed, full track tractors, are classified in classes other than this class.

Excludes High Speed Tractors (FSC 2430); Armored Dozer-Scrapper Combination Tractors (FSC 2350).

2420 Tractors, Wheeled

Note-This class includes only complete wheeled tractors, and chassis. Any end items, assemblies, parts, attachments, or accessories, other than complete chassis, for use in or on wheeled tractors, are classified in classes other than this class.

Includes Agricultural Tractors; High Speed Tractors; Industrial Tractors.

Excludes Aircraft Towing Tractors and Crashed Aircraft Moving Tractors (FSC 1740); Aircraft Towing-Power Servicing Tractors (FSC 1730); Warehouse Tractors (FSC 3930).

2430 Tractors, Full Tracked, High Speed

Note-This class includes only complete high speed track laying tractors, and chassis. Any end items, assemblies, parts, attachments, or accessories, other than complete chassis, for use in or on high speed track laying tractors, are classified in classes other than this class.

Excludes Low Speed Tractor (FSC 2410); Armored Dozer-Scraper Combination Tractors (FSC 2350).

GROUP 25
Vehicular Equipment Components

Note-The term ″vehicular″ as delimited for group 25, is applicable to those 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 19). An item of supply which is a ″vehicular″ component, within the scope delimited above, is classified in this group regardless of whether it has additional applications on vehicles outside the delimitations for this group.

2510 Vehicular Cab, Body, and Frame Structural Components
Includes Leaf Type Vehicular Springs; Suspension Type Shock Absorbers.
Excludes Vehicular Hardware (FSG 53); Specialized Vehicular Furniture (FSC 2540).

2520 Vehicular Power Transmission Components
Includes Transfer Transmission Assemblies; Clutch Assemblies; Universal Joints; Propeller Shafts; Automotive Torque Converters; Power Takeoffs.

2530 Vehicular Brake, Steering, Axle, Wheel, and Track Components
Includes Turrent Brakes; Clutch Brakes, Tank Turret.

2540 Vehicular Furniture and Accessories
Includes Automobile Seat Covers; Shock Absorbers; Bumpers; Windshield Wipers; Bumper Guards; Mirrors, Rear View and Side View; Vehicle Heaters.
Excludes Speedometers (FSC 6680); Suspension Type Shock Absorbers (FSC 2510).

2541 Weapons Systems Specific Vehicular Accessories
Includes: Accessory Kits and Boxes, Parts Kits, and individual components used in the repair and/or modification of Weapons System type Vehicles such as Tanks, Personnel Carriers, Mobile Howitzers, and the like.
Excludes: Items used in the repair and/or modifications of Commercial Type Vehicles (FSC 2540), vehicular type light fixtures (FSC 6220), and electronic switches, parts kits, and modification kits (FSG 59).

2590 Miscellaneous Vehicular Components
Includes Attachments for Tanks, Self-propelled Weapons, and High Speed Tractors; A-frames and Winches specifically designed for truck mounting; Cranes and Crane Booms for Wrecker Trucks.

GROUP 26
Tires and Tubes

2610 Tires and Tubes, Pneumatic, Except Aircraft
Excludes Aircraft Pneumatic Tires and Tubes.

2620 Tires and Tubes, Pneumatic, Aircraft

2630 Tires, Solid and Cushion
Includes Rubber Track Laying Treads.

2640 Tire Rebuilding and Tire and Tube Repair Materials
Includes Tread Gum; Cold Patches; Friction Cord Fabric; Vulcanizing Patches; Padding Stock; Quick-Cure Gum; Tire and Tube Repair Kits; Camelback; Valves; Valve Cores.
Excludes Vulcanizing Machinery and Equipment.

GROUP 28
Engines, Turbines, and Components

2805 Gasoline Reciprocating Engines, Except Aircraft; and Components
Includes Gas Reciprocating Engines; All Gasoline Reciprocating Engines except Aircraft Prime Moving.
Excludes Engine Accessories (FSC 2990).

2810 Gasoline Reciprocating Engines, Aircraft Prime Mover; and Components
Note Engines and components classified in this FSC must be desinged specifically for use as/on an aircraft prime mover. Auxiliary engines and their components will be classified in the appropriate FSC elsewhere in FSG 28.
Includes Complete Engine Assemblies; Piston Rings; Cylinders; Pistons; Camshafts; Crankshafts.
Excludes Fuel System Components (Carburetors; Carburetor Floats; Fuel Pumps; Fuel Controls; Fuel Valves) (FSC 2915); Electrical System Components (Spark Plug Adapters; Ignition Distributors; Ignition Coils, Electrical Starters) (FSC 2925); Engine Cooling System

Components (Engine Oil Coolers; Cooling Radiators) (FSC 2935); Engine Air/Oil Cleaners/Filters/Strainers (FSC 2945); Miscellaneous Engine Accessories (Pneumatic Starters, Cowling Mounts, Control Assemblies) (FSC 2995).

2815 Diesel Engines and Components
Includes Automotive, Industrial, Marine, Locomotive, and all other types of Diesel and Semi-Diesel Engines.
Excludes Engines Accessories (FSC 2990).

2820 Steam Engines, Reciprocating; and Components

2825 Steam Turbines and Components
Includes Mercury Vapor Turbines.

2830 Water Turbines and Water Wheels; and Components

2835 Gas Turbines and Jet Engines; Non-Aircraft Prime Mover, Aircraft Non-Prime Mover, and Components
Note Engines and Components classified in this FSC are primarily for use on non-aircraft prime mover (e.g., Naval ship applications), aircraft non-prime mover (e.g., airframe mounted auxiliary power units), and for aircraft ground support equipment (e.g., start carts).
Includes Airflow Deflectors; Combustion Chambers, Compressors, Turbines, Accessory Gear Boxes and their Components.
Excludes Components for Gas Turbines and Jet Engines, Aircraft Prime Mover (FSC 2840); Engine Fuel Systems (FSC 2910); Engine Electrical Systems (FSC 2920); Engine Cooling Systems (FSC 2930); Engine Air/Oil Cleaners/Filters/Strainers (FSC 2940); Engine Accessories (Air Duct Heaters, Engine Mounted Control Assemblies) (FSC 2990).

2840 Gas Turbines and Jet Engines, Aircraft, Prime Moving; and Components
Note Engines and Components classified in this FSC are intended for use as/on aircraft and/or guided missile prime movers.
Includes Compressor and Turbine Rotors; Blades; Combustion Chamber; Accessory Gear Box; Afterburner; Exhaust Cone; Reservoirs, Hydraulic; Tank, Oil.
Excludes Oil, Air, Anti-icing, and Hydraulic Regulators, Valves, and Pumps specially designed for Gas Turbines and Jet Engines (FSC 2995); Control Assemblies, Push-Pull (FSC 2995); Engine Mounted Control Assemblies (FSC 2995); Fuel System Components (FSC 2915); Engine Electrical System Components (FSC 2925); Engine Cooling System Components (FSC 2935); Engine Air/Oil Cleaner/Filter/Strainers (FSC 2945).

2845 Rocket Engines and Components
Includes Rocket Prime Movers, Liquid Type, including Liquid Jet Assisted Take Off (JATO) Units, for use in aircraft, rockets, and guided missiles; Liquid Propellants encased in consumable containers, intended for insertion into missile propulsion systems as integral parts.
Excludes Rocket Motors - Solid Propellant Units (FSC 1337); Liquid Propellants predetermined to specific quantity and quality, but packaged in reusable containers; Solid Propellant Squibs and Cartridges, whether intended for insertion into Liquid Propellent Systems or not (FSC 1337).

2850 Gasoline Rotary Engines and Components

2895 Miscellaneous Engines and Components
Includes Wind and Compressed Air Engines.

GROUP 29
Engine Accessories

Note-Unless specifically excluded, engine accessories for all vehicles, such as aircraft, motor vehicles, ships, tractors, and construction vehicles, as well as accessories for stationary engines, are classified in this Group.

2910 Engine Fuel System Components, Nonaircraft
Includes Carburetors; Fuel Pumps; Engine Fuel Filters; Fuel Tanks; Components for all engines except Aircraft and Guided Missile Prime Moving.

2915 Engine Fuel System Components, Aircraft and Missile Prime Movers
Note Fuel components specially designed for propulsion fuel systems, aircraft and missiles are to be placed in this FSC.
Includes Carburetors; Fuel Pumps; Engine Fuel Filters; Fuel Controls, Jet Engine; Fuel Primers; Water Injection Controls and Valves; Fuel Valves Fuel Flow Regulators; Components of Smoke Abatement Systems.
Excludes Aircraft Fuel Tanks (FSC 1560); In-flight Refueling System Fuel Components (FSC 1680). Fuel System Components not specifically designed for use with Aircraft Engines or Missile Primemovers.

2920 Engine Electrical System Components, Nonaircraft
Includes Generators; Magnetos; Spark Plugs; Ignition Coils; Ignition Distributors; Engine Voltage Regulators; Ignition Harness Assemblies; Starting Motors for Engines.
Excludes Vehicular Lighting Fixtures (FSC 6220) and Aircraft Generators (FSC 2925).

2925 Engine Electrical System Components, Aircraft Prime Moving
Note Items designed for specific use on aircraft and guided missile prime movers are to be placed in this FSC.
Includes Magnetos; Igniters (Spark Plugs); Ignition Coils; Ignition Distributors; Engine Voltage Regulators; Ignition Harness Assemblies; Starting Motors for Engines; Engine Accessory Generators.
Excludes Aircraft Lighting Fixtures (FSC 6220); Auxiliary Aircraft Generators (FSC 6115).

2930 Engine Cooling System Components, Nonaircraft
Includes Cooling Fans; Radiators; Water Pumps; Water Hose Assemblies; Engine Coolant Filters; Components for all Engines except Aircraft and Guided Missile Prime Moving.

2935 Engine System Cooling Components, Aircraft Prime Moving
Note This class includes only cooling system components for aircraft and/or guided missile prime movers only.
Includes Radiators; Cooling System Pumps; Water Hose Assemblies; Lubricating Oil Coolers and Control Valves; Oil Temperature Regulators.
Excludes Cooling System Components not specifically designed for use with Aircraft Engines.

2940 Engine Air and Oil Filters, Strainers, and Cleaners, Nonaircraft
Includes Components for all Engines except Aircraft and Guided Missile Prime Moving.
Excludes Air and Oil Filters (FSC 4310, 4330), Strainers (FSC 4730) and Cleaners (FSC 4310) not specifically designed for use with engines.

2945 Engine Air and Oil Filters, Cleaners, Aircraft Prime Moving
Note Items placed in this FSC should be specifically designed for use on aircraft or guided missile prime movers only.
Includes Air Filters; Oil Filters; Strainers; Cleaners.
Excludes Fuel Filters (FSC 2915); Items designed for other than Engines.

2950 Turbosupercharger and Components

Note All turbosuperchargers and their components not elsewhere classifiable will be classified in this FSC.

Includes Turbosupercharged Regulators; Engine Turbosuperchargers.

Excludes Engine Integrated Superchargers (FSG 28).

2990 Miscellaneous Engine Accessories, Nonaircraft

Includes Engine Dynafocal Suspension Mounts; Engine Driven Superchargers (not integrated with engine); Starter Cranks; Engine Starter Ropes; Exhaust Mufflers; Hand Inertia Starters; Air Duck Heaters; Engine Governors; Intake Mufflers; Combustion Type Starters; Miscellaneous Accessories for all Engines except Aircraft and Guided Missile Prime Moving.

Excludes Electrical Starters Non-Aircraft (FSC 2920); Aircraft (FSC 2925).

2995 Miscellaneous Engine Accessories, Aircraft

Note Items classified in this class must be specifically designed for use with aircraft or quided missile primemovers only.

Includes Engine Dynafocal Suspension Mounts; Engine Cowling Mounts; Engine Mounted Control Assemblies; Pneumatic Starters; Push-Pull Control Assemblies;Specially designed Jet Engine Air, Oil, Anti-icing and Hydraulic Regulators; Valves and Pumps; Starting Units.

Excludes Exhaust System; (FSC 1560); Jet Engine Hydraulic Reservoirs (FSC 2840); Jet Engine Oil Tanks (FSC 2840); Electrical Starters (FSC 2925); Cockpit Mounted Control Quadrants (FSC 1680); Aircraft Engine Covers (FSC 1730).

GROUP 30
Mechanical Power Transmission Equipment

3010 Torque Converters and Speed Changers

Includes Fluid Couplings; Nonvehicular Clutches and Couplings; Horizontal Right Angle Drive Gear Units.

Excludes Automotive Torque Converters (FSC 2520); Vehicular Power Transmission Components (FSC 2520); Rotary Aircraft Transmission Gear Units (FSC 1615).

3020 Gears, Pulleys, Sprockets, and Transmission Chain

Includes Power Transmission Chain; Matched Gear Sets.

Excludes Reduction Gears (FSC 3010).

3030 Belting, Drive Belts, Fan Belts, and Accessories

Includes Belt Lacings; Belt Pins.

3040 Miscellaneous Power Transmission Equipment

Includes Shafts and Shafting; Collars; Gearshafts; Ball Joints; Actuating Cylinders.

GROUP 31
Bearings

Note- All bearings, including specially designed, lubricated, and/or selected, are to be classified in the appropriate classes of this group. Bearings are parts that supports another part which rotates, slides, or oscillates in or on it.

3110 Bearings, Antifriction, Unmounted

Note This class includes bearings that generally have roller or balls confined by an inner and outer ring to relieve friction in/on/around rotating/moving mechanisms.

Includes Ball Bearings; Roller Bearings; Balls; Races.

Excludes Plain Bearings (FSC 3120); Jewel Bearings (FSC 3120)

3120 Bearings, Plain, Unmounted

Note Bearings in this class are generally one piece that retain and position moving and/or rotating parts. They may have lubrication grooves/fittings/facilities or include pre-lubrication.

Includes Sleeve Bearings; Split Bearings; Washer Type Bearings; Jewel Bearings.

Excludes Antifriction Bearings (FSC 3110); Mounted Bearings (FSC 3130).

3130 Bearings, Mounted

Note This class includes bearings that generally have roller or balls confined by an inner and outer ring to relieve friction in/on/around rotating/moving mechanisms.

Includes Pillow Block Units; Cartridge Units; Flange Units; Takeup Units; Hanger Box Units; Flat Box Units; Step Box Units.

Excludes Antifriction Bearings (FSC 3110); Plain Unmounted Bearings (FSC 3120).

GROUP 32
Woodworking Machinery and Equipment

3210 Sawmill and Planing Mill Machinery

3220 Woodworking Machines

Includes Mortisers; Tenoners; Veneer Lathes.

Excludes Hand Held Power Driven Tools; Hand Held Tools Operated by Flexible Shaft.

3230 Tools and Attachments for Woodworking Machinery

Includes Circular and Band Saw Blades; Cutter Heads; Jointer and Notcher Heads; Cutters.

Excludes Head Turning Tools.

GROUP 34
Metalworking Machinery

3405 Saws and Filing Machines

Includes Cutoff Machines; Saw Blade Dressing Machines; Retoothing Machines.

3408 Machining Centers and Way-Type Machines

Note-The following definitions apply to ″Machining Centers″ and ″Way-type Machines″. a. ″Machining Center″, refers to a multipurpose numerically controlled machine tool for the complete and automatic machining of parts requiring multiple operations such as milling, drilling, tapping, boring, and reaming, having an integral tool storage device and an integral means for positioning various faces of the work piece. It must have facilities for automatic interchanging of varied cutting tools between successive operations. Excluded from this class are multipurpose numerically controlled machine tools, such as Boring-Drilling-Milling Machines, which require the use of an attachment or accessory for tool storage and/or to position the various faces of a work piece. These types of equipment are classified in other appropriate classes within group 34. b. ″Way-type Machine″, refers to a special machine tool of station type design consisting of individually mounted self-contained machining units and facilities for indexing the work piece to each station in a predetermined sequence. The machining unit(s) may be disassembled and rearranged to accommodate different work piece configurations. Machine is capable of performing single or multiple operations on the work piece simultaneously or in sequence to each station.

3410 Electrical and Ultrasonic Erosion Machines

Includes Electrical Discharge Machines; Electrolytic Grinding Machines.

3411 Boring Machines

3412 Broaching Machines

3413 Drilling and Tapping Machines

Includes Multiple Spindle Drilling-Tapping Machines.

Excludes Way-Type Machines.

3414 Gear Cutting and Finishing Machines

3415 Grinding Machines

Excludes Electrolytic Grinding Machines.

3416 Lathes

Includes Screw Machines

Excludes Speed Lathes; Metal Spinning Lathes; Cartridge Case and Shell Lathes.

3417 Milling Machines

3418 Planers and Shapers
Includes Combination Shaper-Planers.
Excludes Gear Shapers; Planer Type Milling Machines.

3419 Miscellaneous Machine Tools
Includes Gun Rifling Machines; Speed Lathes.

3422 Rolling Mills and Drawing Machines

3424 Metal Heat Treating and Non-Thermal Treating Equipment
Includes Hardening, Annealing, Tempering, Normalizing, Cyaniding, and Carburizing Equipment; Furnaces, Flue Welding, Non-Thermal Stress Relieving Systems.

3426 Metal Finishing Equipment
Includes Galvanizing, Tinning, Oiling, Pickling; Electroplating, and Anodizing Equipment.

3431 Electric Arc Welding Equipment
Includes Gas Shielded Arc Welding Machines; Arc Bonding Machines; Semi-Automatic and Automatic Arc Welding Machines.
Excludes Welding Supplies, and Associated Equipment such as: Flux Recovery Mchines; Flux Dispensers; Tacker Panels; Welding Panels.

3432 Electric Resistance Welding Equipment
Includes Electric Resistance Brazing Machines; Band Saw Brazers; Stored Energy Resistance Welding Machines.
Excludes Electric Induction Brazing and Soldering Machines.

3433 Gas Welding, Heat Cutting, and Metalizing Equipment
Includes Metal Spray Guns; Arc Cutting Machines; Torches and Tips; Gas Brazing Machines; Flame Cutting Machines; Vacuum Metalizers; Spark Discharge Metalizers.
Excludes Welding Supplies; Disintegrating Machines.

3436 Welding Positioners and Manipulators
Includes Welding Tables.

3438 Miscellaneous Welding Equipment
Includes Thermite Welding Equipment; Flux Recovery Machines; Flux Dispensers; Arc Converters; Welding Panels.

3439 Miscellaneous Welding, Soldering, and Brazing Supplies and Accessories
Includes Soldering Irons; Welding Electrodes and Rods; Brazing Fluxes; Soldering Fluxes; Solder.

3441 Bending and Forming Machines
Excludes Wire and Metal Ribbon Forming Machines.

3442 Hydraulic and Pneumatic Presses, Power Driven
Includes Metal Powder Compacting Presses.

3443 Mechanical Presses, Power Driven
Includes Metal Powder Compacting Presses.

3444 Manual Presses
Includes Arbor, Straightening, Forcing, and Assembly Presses.

3445 Punching and Shearing Machines

3446 Forging Machinery and Hammers
Excludes Forging Presses.

3447 Wire and Metal Ribbon Forming Machines
Excludes Roll Forming Machines.

3448 Riveting Machines
Excludes Power Driven Hand Riveting Machines.

3449 Miscellaneous Secondary Metal Forming and Cutting Machines
Includes Metal Spinning Lathes.

3450 Machine Tools, Portable
Includes Portable Abrasive Cutting Machines; Portable Drilling Machines; Portable Slotters and Shapers.
Excludes Stationary Type Machine Tools mounted on portable devices such as wheel or leg type stands.

3455 Cutting Tools for Machine Tools
Includes Broaches; Files; Milling Cutters; Reamers; Saws.
Excludes Flame Cutting Tools.

3456 Cutting and Forming Tools for Secondary Metalworking Machinery

3460 Machine Tool accessories
Excludes Abrasive Wheels, Cones, and other Abrasive Attachments for use only on Hand Held Power Tools.

3461 Accessories for Secondary Metalworking Machinery
Excludes Parts Feeders.

3465 Production Jigs, Fixtures, and Templates
Note-This class includes jigs, fixtures, and templates used in conjection with the metalworking machinery classified in Group 34. Jigs, fixtures, and templates used in conjunction with maintenance and repair shop specialized equipment are classified in Group 49.

3470 Machine Shop Sets, Kits, and Outfits

GROUP 35
Service and Trade Equipment

3510 Laundry and Dry Cleaning Equipment
Includes Washing Machines; Extractors; Wringers; Drying Tumblers; Ironers; Presses; Starching Machines; Marking Equipment; Mobile Laundry and Dry Cleaning Units.

3520 Shoe Repairing Equipment
Includes Shoe Sewing Machines; Mobile Shoe Repair Shops.

3530 Industrial Sewing Machines and Mobile Textile Repair Shops
Excludes Shoe Sewing Machines.

3540 Wrapping and Packaging Machinery
Includes Filling Machines; Container Capping Machines; Label Applying Machines; Package Sealing Machines; Paperboard Box, Case and Tray Making Machines; Strapping Machines; Stapling Machines, except Office Type.
Excludes Paperboard Manufacturing Machinery.

3550 Vending and Coin Operated Machines
Includes Fare Recording Devices; Parking Meters; Turnstiles; Coin Operated Phonographs.
Excludes Coin and Currency Handling Machines; Coin Operated Scales.

3590 Miscellaneous Service and Trade Equipment
Includes Manicure Tables.

GROUP 36
Special Industry Machinery

3605 Food Products Machinery and Equipment
Includes Industrial Food Products Equipment.
Excludes Kitchen and Galley Equipment.

3610 Printing, Duplicating, and Bookbinding Equipment
Includes Offset Presses; Typesetting Machinery; Bookbinding Machinery; Photoengraving Machinery; Printing Type; Rules; Leads; Slugs; Line Gages; Quoins; Plate Hooks; Gelatine Process Machines; Spirit Process Machines; Stencil Process Machines; Offset Process Machines; Photostat Machines; Blueprint Printing and Developing Machines; Print Shop Furniture.
Excludes Microfilm Machines.

3611 Industrial Marking Machines
Note-Marking machines which make permanent indentations in metal are classified in Group 34.

Excludes Marking Machines, Laundry; Printing Machine, Label; Printing Press, Label; Embossing Machines, Office Type; and Marking Machines, Office Type.

3615 Pulp and Paper Industries Machinery
Includes Chippers; Digestors; Beaters; Bleaching Equipment; Paperboard Manufacturing Machinery.
Excludes Paperboard Box, Case and Tray Making Machines.

3620 Rubber and Plastics Working Machinery
Includes Plasticators; Presses; Synthetic Rubber Working Machinery; Thread Extruding Machinery; Vulcanizing Machinery.
Excludes Protective Covering Laminating Presses; Tire Maintenance and Repair Equipment.

3625 Textile Industries Machinery
Includes Cotton Ginning Machinery; Looms; Button Covering Machines; Rope Laying Machines; Lace Machines.

3630 Clay and Concrete Products Industries Machinery
Includes Brickmaking Machinery.

3635 Crystal and Glass Industries Machinery
Includes Optical Goods Manufacturing Machinery.
Excludes Ophthalmic Lens Cutting, Drilling, Edging, and Grinding Machines; Specialized Semiconductor, Microcircuit, and Printed Circuit Board Manufacturing Machinery.

3640 Tobacco Manufacturing Machinery

3645 Leather Tanning and Leather Working Industries Machinery

3650 Chemical and Pharmaceutical Products Manufacturing Machinery
Includes Crushers and Mills for Chemical Materials; Pharmaceutical Briquetting and Tabletting Presses; Chemical Explosive Manufacturing Machinery.
Excludes Construction Materials Crushers, Mills and Pulverizers; Plastic Products Manufacturing Machinery; Pharmaceutical Products Wrapping and Packaging Machinery; Laboratory and Shop Type Mills and Mixers.

3655 Gas Generating and Dispensing Systems, Fixed or Mobile
Note-Included in this class are gaseous dispensing systems, both mobile and installed. Includes liquefied gaseous storage tanks, mounted on a common base with, or integral to, gas generating equipment included in this class. Also includes those liquefied gaseous storage tanks, either trailer mounted or skid mounted, used to store liquefied gaseous products until needed. Excluded from this class are those storage tanks designed to be used as an integral part of guided missile propellant servicing trailers, rocket power plants or test stations, and aircraft oxygen converters which are classified as specified by the indexes and structure of the FSC.
Excludes Meteorological Equipment.

3660 Industrial Size Reduction Machinery
Note-This class includes general use machinery related to two or more manufacturing industries.
Excludes Chemical Products and Construction and Mining Type Crushing, Pulverizing, Screening and Mixing Machinery; Maintenance and Repair Shop Type Mixers.

3670 Specialized Semiconductor, Microcircuit, and Printed Circuit Board Manufacturing Machinery
Note-This class includes, and is restricted to, equipment specifically designed for manufacturing semiconductor devices (FSC 5961), microcircuits (FSC 5962), and printed circuit boards (FSC 5998). Excludes items for which more suitable classes are specifically prescribed by the indexes and structure of the FSC.
Includes Substrate Preparation Equipment; Circuit Pattern Forming Equip-

ment; Interconnecting and Packaging Equipment.
Excludes Assembly Machines for Mounting Discrete Components on Printed Wiring Boards.

3680 Foundry Machinery, Related Equipment and Supplies
Includes Molding Machines; Tumbling Mills, Foundry Dextrine; Core Paste.
Excludes Crucible Furnaces; Cupola Furnaces; Foundry Hand Tools.

3685 Specialized Metal Container Manufacturing Machinery and Related Equipment
Note-This class includes only those machines specifically designed for manufacturing metal containers. Closing machines designed to seam the tops of filled containers will be classified in Class 3540.
Includes Drum and Jerrican Manufacturing Machinery; Specially Designed Container Leak Testing Machines; Can Making Machinery.

3690 Specialized Ammunition and Ordnance Machinery and Related Equipment
Includes Ammunition and Explosive Loading (Filling and Assembling) Specialized Machinery; Small Arms Ammunition Manufacturing Machinery; Artillery and Anti-Aircraft Shell Manufacturing Machinery.
Excludes Ammunition and Weapons Maintenance and Repair Shop Specialized Equipment; Nonspecialized or Standard Machinery not designed exclusively for manufacturing or assembling ammunition and ordnance equipment.

3693 Industrial Assembly Machines
Note-This class includes equipment specifically designed to assemble prefabricated components without further design machining of the components. Equipment designed to perform combined machining and assembling operations which result in material removal are classified in classes other than this class. Also excluded are items for which more specific classifications are suitable.
Includes Industrial Production Type Power Screwdriving Machines; Circuit Card Assembly Machines.
Excludes Specialized Ammunition and Ordnance Assembly Machines; Wrapping and Packaging Machinery; Metalworking Machinery; Hand Tools.

3694 Clean Work Stations, Controlled Environment, and Related Equipment
Includes Laminar and Nonlaminar Flow Enclosures; Dust Controlled Facilities; Air Showers.

3695 Miscellaneous Special Industry Machinery
Includes Communication Wire Dispenser Fabricating Machinery; Specialized Logging Equipment; Petroleum Refinery Machinery; Shoemaking Machinery; Production Type Impregnating Equipment.
Excludes Opthalmic Lens Cutting and Grinding Machinery; Clothing Impregnating Equipment.

GROUP 37
Agricultural Machinery and Equipment

3710 Soil Preparation Equipment
Includes Harrows; Plows; Seed Drills; Seeder Attachments; Sprayers.

3720 Harvesting Equipment
Includes Hayrakers; Mowers.
Excludes Mower Attachments (FSC 3750); Sickle Bar Attachments (FSC 3750).

3730 Dairy, Poultry, and Livestock Equipment

3740 Pest, Disease, and Frost Control Equipment
Includes Atomizers; Delousing Outfits; Dusters; Fly Swatters; Flypaper; Fog Generators; Sprayers; Traps.
Excludes Self Pressurized Spray Kits (FSC 4940).

3750 Gardening Implements and Tools
Includes Garden Tractors, Walking Type; Lawn Mowers, Powered and Nonpowered; Hedge Trimers; Lawn Seeders; Fertilizer Spreaders; Gardening Rakes, Forks, Hoes, and Other Gardening Tools.

3770 Saddlery, Harness, Whips, and Related Animal Furnishings
Includes Dog Harnesses; Leads.

GROUP 38
Construction, Mining, Excavating, and Highway Maintenance Equipment

3805 Earth Moving and Excavating Equipment
Includes Scrapers; Ditchers; Loaders; Graders; Special Construction Type Earth and Rock Hauling Trucks and Trailers; Special Individual Work and Power Sections of Construction Equipment with a quick connect/disconnect capability. The Power Section is designed to be coupled with a Work Section to form a functional piece of Construction Equipment.
Excludes Standard Tractors (FSG 24); Trailers (FSC 2330); Trucks (FSC 2320).

3810 Cranes and Crane-Shovels
Includes Cranes; Crane-Semitractors; Crane-Shovels; Crane-Tractors.
Excludes Barge Mounted Cranes (FSC 1935); Locomotive Cranes (FSC 2230).

3815 Crane and Crane-Shovel Attachments
Includes Backhoes; Buckets; Dippers; Fairleads; Gantries; Grapples; Lifting Magnets; Shovels; Wrecking Balls.

3820 Mining, Rock Drilling, Earth Boring, and Related Equipment
Includes Augers; Crushers; Crushing, Screening, and Washing Plants and Units; Drilling Machines; Paving Breakers; Rock Drills.
Excludes Tampers (FSC 3895).

3825 Road Clearing, Cleaning, and Marking Equipment
Includes Pavement Scrubbing Machines; Snow Removal Units; Sweepers; Road Marking Machines; Vacuum Cleaners; Water Distributors; Weed Burners.
Excludes Standard Tractors with Road Clearing or Cleaning Attachments (FSC 2410, 2420, 2430); Timber Sawing Equipment (FSC 5130, 5110).

3830 Truck and Tractor Attachments
Includes Angledozers; Augers; Backhoes; Bullclams; Bulldozer-Shovels; Cranes; Grubbers; Loaders; Rakes; Rippers; Rollers; Scarifiers; Snow Removal Units; Snowplows; Sweepers; Treedozers.

3835 Petroleum Production and Distribution Equipment
Includes Well Heads; Pumping Equipment; Gas Distribution Equipment.

3895 Miscellaneous Construction Equipment
Includes Asphalt Elevators; Asphalt Heaters; Asphalt Kettles; Asphalt Transfer Equipment; Batching Plants; Stabilizing and Compacting Equipment; Concrete Mixers (All Types); Concrete Vibrators; Bituminous and Concrete Pavers; Asphalt Distributors; Sheepfoot Rollers; Rooters; Rippers; Pile Drivers; Bitumen Heaters; Cable Laying, Lashing, Spinning, and Reeling Equipment.
Excludes Earth Moving and Excavating Equipment (FSC 3805 & 3810); Pile Driving Attachments for Cranes and Crane-Shovels (FSC 3815); Special Individual Work and Power Sections of Construction Equipment with a quick connect/disconnect capability (FSC 3805).

GROUP 39
Materials Handling Equipment

3910 Conveyors
Includes Pneumatic Tube Systems; Portable, Stationary, Powered, and Nonpowered Conveyors; Conveyor Feeders.

3915 Materials Feeders

Note-Materials Handling equipment included in this class is restricted to those materials feeders and parts feeders that serve as a conveying device, and by which the rate of delivery of bulk materials, packages, or objects may be controlled. Items included in this class are synchronized with companion machinery, feeding predetermined amounts, by volume, of specific materials accurately and continuesly from storage bins or hoppers to process or mixing machines, and are interchangable between machines. Excluded from this class are conveyor feeders (i.e., apron, belt, chain, flight, pan, etc., adapted for feeder service) that are classifiable in Class 3910 and/or Class 3895, as appropriate.

Includes Dry Materials Feeders; Parts Feeders

Excludes Aggregate and Fines Feeders; Conveyor Feeders; Water Purification Dry Chemical Feeders.

3920 Material Handling Equipment, Nonself-Propelled

Includes Dolly Trucks; Pushcarts; Handcarts; Wheelbarrows; Hand Trucks; Materials Handling Trailers.

Excludes Conveyors.

3930 Warehouse Trucks and Tractors, Self-Propelled

Includes Tug Jockeys; Fork Lift Trucks; Platform Trucks; Straddle Trucks.

3940 Blocks, Tackle, Rigging, and Slings

Excludes Load Chain; Chain and Metal Rope Fittings; Wire Rope; Hoists; Ship Rigging.

3950 Winches, Hoists, Cranes, and Derricks

Includes Windlasses: Capstans: Ore Bridges: Gypsies: Warehouse Cranes: Wharf Cranes, Mobile or Fixed: Overhead Traveling Cranes.

Excludes Crane-Shovels (FSC 3810); Barge Mounted Cranes (FSC 1935); Winches for Integral Mounting on Trucks or Tractors (FSC 3830); Locomotive Cranes (FSC 2230).

3960 Freight Elevators

3990 Miscellaneous Materials Handling Equipment

Includes Skids; Pallets.

Excludes Airfield Engine Transport Skids.

GROUP 40
Rope, Cable, Chain, and Fittings

4010 Chain and Wire Rope

Note-Chain and wire rope, with attachments or terminations will be classified in this class when they are for general use. a. Chain is a series of flexible links and/or rings fitted into one another used for supporting, lifting,restraining, dragging, or transmitting power. b. Wire rope is formed from strands of twisted wire.

Includes Bead Chain; Weldless Chain; Single Leg Chain Assemblies; Wire Rope; Wire Cord; Single Leg Wire Assemblies.

Excludes Power Transmission Chain (FSC 3020); Slings.

4020 Fiber Rope, Cordage, and Twine

Note-Fiber rope is classified in this class when it is bulk material or for general use. Items with attachments and/or terminations are identified in this class unless a more specific item name is used. a. Fiber rope is flexible twisted strands of manila, nylon or other fiber. b. Cordage is ropes or cords used in rigging (see item name definitions for parameters). c. Twine is two or more strands twisted together.

Includes Fibrous Cord Assemblies; Fibrous Cord; Fibrous Rope; Fibrous Twine.

Excludes Wire Rope (FSC 4010); Slings (FSC 3940).

4030 Fittings for Rope, Cable, and Chain

Note All items, including specially designed, will be classified in this FSC. Fittings classified in this FSC are items used in conjunction with chain, rope, and are attached to perform certain functions, (e.g., hooks, shackles, and wedges) refer to item name definitions for parameters.

Includes Anchor Guys; Wire Stranded Bands; Wire Rope Clamps; Cargo Hooks;

Shackles; Swivels; Rope Terminals; Rope Wedges.
Excludes Clamp Blocks (FSC 5340); Support Hooks (FSC 5340).

GROUP 41
Refrigeration, Air Conditioning, and Air Circulating Equipment

4110 Refrigeration Equipment

Note-This class includes only complete refrigeration equipment, whether refrigerated from an integral or remote mechanical refrigeration unit or system. Also included in this class are refrigeration plants, and complete ″packaged″ refrigeration units and systems containing a power driven compressor, condenser, evaporator, and all other necessary components to refrigerate an enclosed space. Nonoperating accessories such as ice trays, shelves, and panels are included in this class. Excluded from this class are operating components, assemblies, parts, attachments, or accessories, for use in or on complete refrigeration equipment, plants, systems, or the ″packaged″ refrigeration units, and which are to be classified in Class 4130, or as otherwise specifically prescribed by the indexes and structure of the FSC.
Includes Grocery Type Display Cases; Ice Cream Cabinets; Drinking Fountains (except Portable and stationary types classified in Class 4510); Professional and Scientific Refrigerators; Rivet Coolers; Photographic Refrigerators; Mortuary Refrigerators; Household and Commercial Refrigerators; Grocery Type Showcases; and other types of refrigeration equipment of the commissary or food store type.
Excludes Cafeteria Type Refrigerated Display Cases; Soda Fountains; Milk, Soda, and/or Ice Cream Dispensers; Cold Food Counters; Carbonators; Combination Heated-Refrigerated Food Serving Equipment; Cafeteria Type Showcases; Chilling Equipment Used for Display and Serving of Food (see Class 7310 for these items). Also excluded from this class are refrigeration components (see Class 4130).

4120 Air Conditioning Equipment

Note-This class includes only complete air conditioning equipment, systems, and plants. Also included are specially designed nonoperating accessories such as a window panel used with a window type air conditioning unit to facilitate mounting. Excluded from this class are operating components, assemblies, parts, attachments, or accessories for use in or on air conditioning equipment, which are to be classified in Class 4130, or as otherwise specifically prescribed by the indexes and structure of the FSC.
Includes Store Type Units; Window and Room Type Units; Marine, and Vehicular Air Conditioning Units; Air Conditioning Plants and Systems.
Excludes Air Conditioning Components (FSC 4130, or as otherwise specifically prescribed by the indexes and structure of the FSC).

4130 Refrigeration and Air Conditioning Components

Includes Heat Exchanger Equipment; Refrigerant Strainers; Refrigeration Compressors; Air Conditioning and Refrigeration Servicing Equipment, such as Charging and testing manifolds, Lines and Units; Operating Components of Refrigeration and Air Conditioning Equipment, Plants, and Systems classified in classes 4110 and 4120.
Excludes Refrigeration and Air Conditioning Plants (see classes 4110 and 4120): Collections of Refrigeration Components ″packaged″ as a unit including a refrigeration compressor, condenser, evaporator, etc., specifically designed and tailored for applications such as walk-in type refrigerators. Individual components of the ″packaged″ unit will be classified in class 4130, or as otherwise specifically prescribed by the indexes and structure of the FSC. The complete ″package″ unit will be classified in class 4110.

4140 Fans, Air Circulators, and Blower Equipment

Note-Fans and impellers which are specifically designed for use with specific individual types of equipment are to be classified in the same classes as their next higher assemblies or in the appropriate components or accessories classes (as in Group 25 or 29 or Class 1680) as prescribed by the indexes and structure of the FSC.

Includes Wall Type Fans; Pedestal Type Fans; Household Type and Attic Type Exhaust Fans; Floor Fans; Forged Draft Exhaust and Disposal Kits; Fans, Air Circulators, and Blower Equipment, whether designated as "industrial" or "nonindustrial" by application and/or use.

Excludes Combination Heater-Fans (FSC 4520).

4150 Vortex Tubes and Other Related Cooling Tubes

Includes Tool Grinding spot coolers; machining spot coolers; electronic equipment spot coolers; and electronic cabinet spot coolers.

Excludes Refrigeration and Air Conditioning Plants (Classes 4110 and 4120); Air Conditioning Components and Cooler Unit, Air (Class 4130); Cooler, Air, Evaporative (Class 4120) and Pipe and Tube (Group 47).

GROUP 42
Fire Fighting, Rescue, and Safety Equipment; and Environmental Protection Equipment and Materials

4210 Fire Fighting Equipment

Includes Fire Extinguishers; Fire Axes; Fire Rakes; Fire Beaters; Fire Trucks; Fire Hose; Play Pipes; Hose Fittings having one or more Fire Hose End Connections; Fire Hose Reels; Fire Fighting Trailers; Fire Hydrants; Sprinkler Heads.

Excludes Wrecking Bars (FSC 5120, 1385).

4220 Marine Lifesaving and Diving Equipment

Includes Diving and Salvage Apparatus, including Pressurized Divers' Suits; Rescue Nets, Buoyant; Inflatable Life Vests; Life Rafts.

Excludes Lifesaving Boats (FSC 1940).

4230 Decontaminating and Impregnating Equipment

Note-Excludes production type equipment designed for impregnation of metal castings and electronic components, processing of leather and textiles, and for similar industrial processing operations.

4235 Hazardous Material Spill Containment and Clean-up Equipment and Material

Includes Secondary Spill Containment Sumps; Liquid Spill Containment Pallets; Spill Containment Basins; Spill Containment Systems; Absorbent, Sorbent and Blotting Materials.

4240 Safety and Rescue Equipment

Includes Portable Fire Escapes; Safety Nets, Nonbuoyant.

Excludes Divers' Suits; Fixed Fire Escapes.

4250 Recycling and Reclamation Equipment

Includes Material and Machinery designed to remove, neutralize and/or prepare for possible re-use of substances otherwise considered to be unreclaimable.

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, aircraft propeller feathering pumps, fork lift operating pumps, compressors for operating gun turrets, and vehicular brake system compressors. Also excluded are items specially designed as or for use on fuel dispensing equipment. The FSC indexes and structure will govern the classification of these items permitted classification in a single class only.

4310 Compressors and Vacuum Pumps
Includes Truck Mounted and Trailer Mounted Compressors.
Excludes Refrigeration Compressors (FSC 4130).

4320 Power and Hand Pumps
Excludes Laboratory Jet Pumps (FSG 65 and 66).

4330 Centrifugals, Separators, and Pressure and Vacuum Filters
Excludes Laboratory Centrifuges (FSG 65 and 66); Water Purification Filters (FSC 4610).

GROUP 44
Furnace, Steam Plant, and Drying Equipment; and Nuclear Reactors

4410 Industrial Boilers
Includes Steam Boilers, over 15 pounds WSP. Marine Boilers; Boiler Drums; Water Heaters, Low Pressure (over 100 gallon recovery capacity).

4420 Heat Exchangers and Steam Condensers

4430 Industrial Furnaces, Kilns, Lehrs, and Ovens
Includes Crucible Furnaces; Cupola Furnaces.
Excludes Food Industry Ovens (FSC 7310); Metal Heat Treating Furnaces (FSC 3424); Laboratory Type Furnaces (FSC 6640).

4440 Driers, Dehydrators, and Anhydrators
Includes Evaporators.

4460 Air Purification Equipment
Includes Electronic Precipitators; Dust Collection Equipment.
Excludes Fan and Blower Equipment (FSC 4140); Air Conditioning Equipment (FSC 4120).

4470 Nuclear Reactors
Note-This class includes 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. Excluded from this class are those items for which more specific classifications are suitable.
Includes Refueling Machines; Ion Chamber Seals; Thermal Barriers; Control Rods; Steam Generators, Pressurized Water; Reactor Vessel Shells; Handling Carts; Hoisting Units, New and Spent Cartridge.

GROUP 45
Plumbing, Heating, and Waste Disposal Equipment

4510 Plumbing Fixtures and Accessories
Includes 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.
Excludes Fittings and Specialties for Hose, Pipe and Tube (FSC 4730).

4520 Space and Water Heating Equipment
Includes Boilers, 15 pounds WSP and under (for boilers over 15 pounds WSP, see FSC 4410); Domestic Water Storage Tanks through 100 gallon capacity; Fireplace Heaters; Furnaces; Space Heaters; Heating Radiators; Immersion Heaters; Water Heaters, through 100 gallon recovery capacity (for heaters over 100 gallons recovery capacity, see FSC 4410).
Excludes Vehicle Heaters; (FSC 2540); Aircraft Heaters (FSC 1660).

4530 Fuel Burning Equipment Units
Includes Oil Burners; Stokers; Gas Burners.

4540 Waste Disposal Equipment
Includes Compactors; Destructors; Garbage Disposals; Incinerators; Septic Tanks.

GROUP 46
Water Purification and Sewage Treatment Equipment

4610 Water Purification Equipment
Includes Demineralizers; Filtration Equipment; Ice and Snow Melters.
Excludes Water Purification Compounds (FSC 6810 and 7930); Water Softening Compounds (FSC 6810 and 7930).

4620 Water Distillation Equipment, Marine and Industrial
Excludes Laboratory Distillation Apparatus (FSC 6640).

4630 Sewage Treatment Equipment

GROUP 47
Pipe, Tubing, Hose, and Fittings

4710 Pipe, Tube and Rigid Tubing
Includes Culvert Pipes; Culvert Pipe Connector Bands; Metallic Pipes; Plastic Pipes; Tubes and Rigid Tubing and their assemblies.
Excludes Air Conditioning-Heating Pipes (FSC 4520); Asbestos and Cement, Bituminized Fiber, Clay and Concrete Pipes (FSC 5630); Conduit Pipes and their assemblies (FSC 5975); Downspout Pipes (FSC 5670); Exhaust Pipes (FSC 1560, 2990, and 4520); Fire Extinguishing Systems Pipes and Tubes and their assemblies (FSC 4210); Flexible Tubing (FSC 4720); Glass Tubing (FSC 6640, and 9340); Laboratory Tubes (FSC 6640); Medical and Surgical Tubes (FSC 6515).

4720 Hose and Flexible Tubing
Includes Air Duct, Metallic, Nonmetallic, and Textile Fiber Hoses and their assemblies; Flexible Tubing and their assemblies.
Excludes Conduit and their assemblies (FSC 5975); Laboratory Tubes (FSC 6640); Medical and Surgical Tubes (FSC 6515); Rigid Tubing and their assemblies (FSC 4710).

4730 Hose, Pipe, Tube, Lubrication, and Railing Fittings
Includes 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 (FSC 4520); Bituminized Fiber and Concrete Fittings (FSC 5630); Conduit Boxes and Fittings (FSC 5975); Downspout Fittings (FSC 5670); Medical and Surgical Fittings (FSC 6515); Laboratory Fittings (FSC 6640); Post Caps and Rail Ends (FSC 5660); Machine Thread Bushings and Plugs (FSC 5365).

GROUP 48
Valves

Note-This group may include specially designed valves for use on individual types of equipment or systems. Excluded are such items as tire valves, engine intake and exhaust valves, explosive valves, carburetor valves, water mixing valves, and flush valves.

4810 Valves, Powered
Includes Electric Motor Operated Valves; Hydraulic Operated Valves; Solenoid Operated Valves.
Excludes Engine Intake and Exhaust valves (FSC 2990, 2815); Valves specifically designed for use with fire fighting equipment (FSC 4210); plumbing equipment, and the like (FSC 4540).

4820 Valves, Nonpowered
Includes Automatic Nonpowered Valves; Gate, Globe, Angle, Check, and Relief Valves; Cocks.
Excludes Fire Hydrants (FSC 4210); Sprinkler Heads (FSC 4210); Valves specifically designed for use with fire fighting Equipment (FSC 4210); plumbing equipment, and the like (FSC 4540).

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, will be classified in Class 4910. Jigs, fixtures, and templates used in conjunction with maintenance and repair shop specialized equipment are classified in this group. However, jigs, fixtures, and templates used in conjunction with metalworking machinery are classified in Group 34. Infrared assemblies, subassemblies, and components specifically designed as test and maintenance specialized equipment are classified in the appropriate classes of this group. Excluded from this group is infrared equipment designed for testing communications and night vision equipment.

4910 Motor Vehicle Maintenance and Repair Shop Specialized Equipment

Includes Automotive Lifts; Wheel Aligners; Brake Service Equipment; Tire Maintenance and Repair Equipment; Test stands and test equipment specially designed for use with motor vehicles.

Excludes Hand Tools (FSG 51); Lubrication and Fuel Dispensing Equipment (FSC 4930); Basic types of electrical and electronic test instruments, including those specifically designed, such as ammeters, voltmeters, ohmmeters, multimeters, and similar instruments as shown in the indexes in the FSC (FSC 6625).

4920 Aircraft Maintenance and Repair Shop Specialized Equipment

Includes Maintenance stands designed for support of aircraft assemblies during repair or overhaul; Test Stands and Test Equipment specially designed for maintenance and repair of aircraft components such as: engines, generators, hydraulic systems, armament, automatic pilot, fire control, flight control, and navigational systems.

Excludes Hand Tools; Airfield Maintenance Platforms; Basic types of electrical and electronic test instruments, including those specially designed, such as ammeters, voltmeters ohmmeters, multimeters, and similar instruments, as shown in the indexes to the FSC; Test Apparatus used for both communications and other electrical and electronic equipment.

4921 Torpedo Maintenance, Repair, and Checkout Specialized Equipment

Includes Specially designed maintenance, test, checkout, and repair shop specialized equipment for maintenance and repair of torpedoes, torpedo components; adapters, fixtures, inspection and holding fixtures, leveling jack assemblies, fuel filling and syphon assemblies, control surface adapter and protractor assemblies, afterbody cradle adapter and tilting mount assemblies, pressure air heater assemblies, motor drier and puller assemblies, test stand levels and stands for overhaul, maintenance, test, checkout, and repair of torpedo and torpedo components, test panels, fixtures, and test sets for electrical circuits, firing circuits and torpedo test sets.

Excludes Specially designed maintenance test, checkout and repair shop specialized equipment for maintenance and repair of ammunition, guided missiles, rockets, fire control, space vehicles, underwater mines, depth charges and nuclear ordnance. Also excludes ″basic″ types of electrical and electronic test instruments, such as ammeters, voltmeters, ohmmeters, multimeters, galvanometers and similar instruments.

4923 Depth Charges and Underwater Mines Maintenance, Repair, and Checkout Specialized Equipment

Includes Specially designed maintenance, test, checkout and repair shop specialized equipment for maintenance and repair of depth charges and underwater mines; adapters, inspection, test and holding fixtures; stands for overhaul, maintenance, test, checkout, and repair of underwater mines and depth charges; test fixtures, panels plus assemblies and test sets for leak test, pressure test, firing circuits and timing devices.

Excludes Specially designed maintenance, test, checkout, and repair shop equipment designed for nuclear ordnance, guided missiles, ammunition, torpedoes, rockets, fire control, space vehicles and "basic" types of electrical and electronic test instruments.

4925 Ammunition Maintenance, Repair, and Checkout Specialized Equipment

Includes Specially designed maintenance, test, checkout, and repair shop specialized equipment, for maintenance and repair of ammunition items; adapters, ammunition feeders and hoppers; inspection and holding fixtures; linkers, linkers-delinkers, and delinkers to assemble and disassemble ammunition belts; surveillance ovens; explosimeters; primer firing device fixtures; mandrels; repositioning machines; gas bomb service kits; test fixtures; panels; plug assemblies; and test sets for ammunition maintenance, checkout and repair.

Excludes Maintenance, repair, checkout and test equipment specially designed for use with guided missiles, guided missile remote control systems, guided missile systems; fire control; nuclear ordnance; rockets, underwater mines and depth charges; torpedoes; space vehicles and test equipment for aircraft weapon launchers; basic types of electrical and electronic test instruments, such as ammeters, voltmeters, ohmmeters, multimeters, and similar instruments, as shown in the indexes to the FSC.

4927 Rocket Maintenance, Repair and Checkout Specialized Equipment

Includes Specially designed maintenance, test, checkout, and repair shop specialized equipment for maintenance and repair of rockets and rocket components; rocket maintenance stands; test stands; fixtures; jigs; and shop equipment designed for maintenance and repair of rockets, rocket motors and other rocket components.

Excludes Specially designed maintenance, test, checkout, and repair shop equipment specifically designed for nuclear ordnance, guided missiles, fire control, torpedoes, underwater mines, depth charges, ammunition, space vehicles; test equipment for aircraft rocket launchers and "basic" types of electrical and electronic test instruments, such as ammeters, voltmeters, ohmmeters, multimeters, galvanometers and similar instruments.

4930 Lubrication and Fuel Dispensing Equipment

Includes 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 (FSC 4730).

4931 Fire Control Maintenance and Repair Shop Specialized Equipment

Includes Specially Designed Test Equipment, Maintenance Fixtures and Stands.

Excludes Instruments for use on both Fire Control and other Equipment; Airborne Fire Control Maintenance and Repair Shop Equipment.

4933 Weapons Maintenance and Repair Shop Specialized Equipment

Includes Maintenance Stands, Fixtures, and Jigs.

Excludes Atomic Ordnance Maintenance and Repair Shop Specialized Equipment; Airborne Weapons Maintenance and Repair Shop Equipment.

4935 Guided Missile Maintenance, Repair, and Checkout Specialized Equipment

Includes Checkout equipment and test equipment specially designed for use with guided missiles and guided missile remote control systems.

Excludes Specially designed internal (built-in) checkout equipment for guided missile remote control systems; Basic types of electrical and electronic test instruments, including those specially designed, such as ammeters, voltmeters,

ohmmeters, multimeters, and similar instruments, as shown in the indexes to the FSC; Test Apparatus used for both communications and other electrical and electronic equipment.

4940 Miscellaneous Maintenance and Repair Shop Specialized Equipment
Includes Paint Spraying Equipment.
Excludes Hand Tools (FSG 51).

4960 Space Vehicle Maintenance, Repair, and Checkout Specialized Equipment
Includes Checkout and Test Equipment specially designed for use with Space Vehicles, including Remote Control Systems.
Excludes Checkout and Test Equipment used with both Guided Missiles and Space Vehicles; Specially designed Internal (Built-in) Checkout Equipment for Remote Control Systems; Basic types of Electrical and Electronic Test Instruments, including those specially designed, such as ammeters, ohmmeters, multimeters, and similar instruments, as shown in the indexes to the FSC.

4970 Multiple Guided Weapons, Specialized Maintenance and Repair Shop Equipment
Note Maintenance, test, checkout and repair shop equipment designed to test, maintain, fault isolate and repair multiple guided weapon systems. For equipment designed to be used with only one specific system see the individual FSC indexed (i.e., 4921, 4927, 4935).

GROUP 51
Hand Tools

5110 Hand Tools, Edged, Nonpowered
Includes Chisels; Files; Pipe Cutters; Rasps; Saws; Screw Plates; Axes; Hatchets; Machetes.

5120 Hand Tools, Nonedged, Nonpowered
Includes Hammers; Picks; Pliers, except pliers for cutting only; Screwdrivers; Shovels; Construction Rakes, Forks and Hoes; Jacks, including Contractors' Jacks; Wrecking Bars; Glue Pots; Blowtorches.
Excludes Craftsman's Measuring Tools; Gardening Rakes, Forks, Hoes, and other Garden Tools.

5130 Hand Tools, Power Driven
Includes Drills; Riveters; Portable Electric Saws; Pneumatic Tools; Abrasive Wheels, Cones, and other Abrasive Attachments for use only on Hand Held Power Tools.

5133 Drill Bits, Counterbores, and Countersinks: Hand and Machine

5136 Taps, Dies, and Collets; Hand and Machine
Excludes Punching, Stamping, and Marking Dies.

5140 Tool and Hardware Boxes

5180 Sets, Kits, and Outfits of Hand Tools
Note-This class includes sets, kits and outfits consisting of several different items classifiable either in a single class or in several classes. Excluded from this class are sets, kits and outfits consisting of variations (such as size or color) of an item. Classify these items in the same class as the individual item.

GROUP 52
Measuring Tools

5210 Measuring Tools, Craftsmen's
Note-This class does not include special inspection gages, which are classified in Class 5220.
Includes Calipers; Levels; Micrometers; Plumb Bobs; Precision Tapes; Squares; Angle Gages; Center Gages; Depth Gages; Draw Gages; Drill Point Gages; Fillet and Radius Gages; Glaziers' Gages; Height Gages (Vernier); Planer Gages; Rivet Selector Gages; Saw Tooth Set Gages; Screw Pitch Gages; Surface Gages; Telescoping Gages; Thickness Gages; Tube Bead Gages; Tube Flare Gages; Twist Drill Gages; Twist Drill and Rod Gages; Twist Drill and Tap Gages;

Taper-Wire-Thickness Gages; Wire Gages; Tool Setting Planer and Shaper Gages; Gage Blocks.

5220 Inspection Gages and Precision Layout Tools

Note-Special inspection gages are included in this class.

Includes Go and Not-Go Gages, including Plug, Ring, Snap, Thread, and Length Gages; Profile Gages; Fixture Gages; Special Inspection Gages.

5280 Sets, Kits, and Outfits of Measuring Tools

GROUP 53
Hardware and Abrasives

5305 Screws

5306 Bolts

5307 Studs

5310 Nuts and Washers

Note Nuts and washers, including specially designed, are to be classified in this FSC. a. Nuts are a small metal block made in a variety of shapes such as square and hexagonal which is drilled and internally threaded. b. Washers are a perforated piece of metal, leather, or other materials of various shapes or forms. They are used primarily as a seat for a bolt, nut, screw, rivet or nail to distribute pressure and prevent endwise motion over an area and/or to prevent movement between two parts by means of restraining features created by the shape of its edges.

Includes Locknuts; Eye Nuts; Plain Nuts; Castellated Nuts; Wing Nuts; Plate Nuts; Push on Nuts; Concave and Convex Washers; Flat Washers; Keyed Washers; Lock Washers; Shouldered Washers; Split Washers.

Excludes Bearing Thrust Washers (FSC 3120); Shims (FSC 5365); Ring Spacers (FSC 5365); Plate Spacers (FSC 5365); Lock Rings (FSC 5365).

5315 Nails, Machine Keys, and Pins

Note Nails, machine keys, and pins, including specially designed, will be classified in this FSC. a. Nails are slender, usually pointed fasteners with a head, and designed for insertion by impact. b. Machine keys are items generally inserted between two items, usually in a groove, to prevent relative rotation e.g., shaft and hub. c. Pins are cylindrical items of various materials used to align/attach two or more parts together and may allow for angular movement.

Includes Dowel Pins, Split Pins; Spikes; Tacks; Nonoffice Type Staples; Machine Keys; Brads; Shouldered Pins; Cotter Pins; Nails.

Excludes Shafts (FSC 3040); Lock Keys (FSC 5340).

5320 Rivets

5325 Fastening Devices

Includes Eyelets; Grommets; Aircraft Cowling Fasteners; Textile Fasteners; Retaining Rings; Threaded Inserts.

5330 Packing and Gasket Materials

Note This FSC includes only seals and gaskets designed for standard use. Seals, gaskets and packing are made from materials specifically designed and constructed to resist deterioration from the action of heat, gas, chemicals, liquids, and used to fill a cavity and create a tight seal. Similar materials used to make seals, gaskets, and packing are available in bulk form, refer to FSG 93, FSG 80, and FSG 83.

Includes General Purpose Oil Grease, Air, Liquid, Gas, and chemical Seals; Oakum; Prefabricated Gaskets and Seals designed for a single specific application.

Excludes O-Rings (FSC 5331); Bulk material items, such as; Rubber, Cork, and Asbestos Sheets and Strips (FSG 93); Liquid Gasket Materials (RTV, Permatex, etc.) (FSG 80); RFI and EMI Seals and Gaskets (FSC 5999), and all Seal Retainers.

5331 O-Ring
Excludes Packing and Gasket Material (FSC 5330).

5335 Metal Screening
Note Metal Screening is a perforated plate or cylinder or a meshed wire fabric usually mounted and used to separate coarse from finer parts.
Includes Insect Screening; Industrial Metal Cloth; Industrial Metal Mesh.
Excludes Fencing (FSC 5660).

5340 Hardware, Commercial
Note Common hardware designed primarily for commercial use will be classified in this FSC. Hardware is the physical, tangible and permanent components of end items that may not be classified elsewhere. It consists also of common items that are commonly used in construction and/or manufacturing (e.g., hinges, door locks).
Includes Access Covers; Bumpers; Casters; Cabinet and Door Hardware; Clevises; Hinges; Latches; Straps and Strapping; Turnbuckles; Webbed Straps.
Excludes Weapons System Hardware (FSC 5342).

5342 Hardware, Weapon System
Note Hardware designed for weapon systems unique applications will be classified in this FSC.
Includes Adapters; Anchor Plates and Straps; Anodes; Bellows; Couplings; Control Rods; Access Doors; Fairleads; Mounts; Tie Rods; Yokes.
Excludes Commercial Hardware (FSC 5340).

5345 Disks and Stones, Abrasive
Includes Abrasive Belts and Belting; Hones; Abrasive Wheels, Multiapplication.
Excludes Dental Abrasives; Abrasive Cones, and other Abrasive Attachments for equipment.

5350 Abrasive Materials
Includes Cloth; Papers; Powders; Abrasive Polishing Compounds; Metal Finishing Abrasives; Industrial Diamonds; Diamond Dust; Rouge.

5355 Knobs and Pointers
Includes Knobs, including Calibrated Knobs; Dials, Scale.

5360 Coil, Flat, Leaf, and Wire Springs
Note-All springs, including specially designed, will be classified in this FSC. A spring is an elastic mechanical device that regains its original shape after being compressed, extended or deflected.
Includes Compression Springs; Torsion Springs; Leaf Spring Assemblies; Flat Springs; Extension Springs.

5365 Bushings, Rings, Shims, and Spacers
Note-All items, including specially designed, will be classified in this FSC. a. A bushing is cylindrical in shape, hollow, and designed primarily to be inserted into a hole to reduce the effective inside diameter of the hole, and to protect the body structure about the hole from damage resulting from stress, strain, and vibration. b. A ring is cylindrical in shape, usually flat with a center hole. Rings are multi-applicational. See specific item name for designated usage. c. A shim is a thin, sometimes tapered, piece of material used to fill in space between things. See specific item name for dimensional parameters. d. A spacer is a device for holding two members at a given distance from each other.
Includes Externally Threaded Rings; Keyed and Serrated Lock Rings; Dee Rings; Instrument Retaining Rings; Shim Sets and Assortments; Plate Spacers; Ring Spacers; Sleeve Spacers; Stepped Spacers; Spacer Sets and Assortments; Sleeve Bushings; Machine Threaded Bushings; Machine Threaded Plugs.
Excludes Sleeve Bearings (FSC 3120); Pipe Threaded Plugs (FSC 4730); Piston Rings (FSC 2520, 2805, 2810, 2815, 2825, 2990, 3040, 4310, and 4820); Retaining Rings (FSC 5325); Shim Stock (FSC 9515).

GROUP 54
Prefabricated Structures and Scaffolding

5410 Prefabricated and Portable Buildings
Includes Prefabricated Panels; Inflatable Shelters; Metal Screens and Metal Windows.

5411 Rigid Wall Shelters
Includes Expandable and nonexpandable shelters.

5419 Collective Modular Support System
Note Includes Self-Contained habitat, containing facilities normally expected in a "Rest and Recreational" area, such as; billeting, food services, laundry, shower/hygiene services, recreational and support services that enhance morale and welfare.

5420 Bridges, Fixed and Floating
Includes Special Bridge Erection Equipment; Bridge Floats and Pontoons; Tramways; Trestles.
Excludes Pontoons and Floating Docks (FSC 1945).

5430 Storage Tanks
Includes Assembled and Unassembled Tanks for storage only; Enclosures for Pressure and Vacuum Tanks; Petroleum Bulk Storage Tanks.
Excludes Boiler Tanks (FSC 4410); Hot Water Tanks (FSC 4520).

5440 Scaffolding Equipment and Concrete Forms
Includes Prefabricated Concrete Placing Forms; Builders' Ladders and Stepladders; Suspension stages.
Excludes Aircraft Ladders (FSC 1730); Fire Fighting Ladders (FSC 4210); Maintenance Ladders (FSC 4940); Marine Vessel Ladders (FSC 2090); Vehicle Ladders (FSC 2540).

5445 Prefabricated Tower Structures
Includes Power Transmission Towers; Radar Towers; Searchlight Towers; Control Towers; Prefabricated Tower Components, such as Anchor Rails, Tie Rods, Braces, Steps, Guy Assemblies; Specialized Tower Hardware.

5450 Miscellaneous Prefabricated Structures
Includes Bleachers; Grandstands.

GROUP 55
Lumber, Millwork, Plywood, and Veneer

5510 Lumber and Related Basic Wood Materials
Includes Dimensional Lumber; Wood Flooring; Mine Timbers; Poles; Railroad Ties; Wood Siding; Molding; Stakes.
Excludes Millwork (FSC 5520); Plywood and Veneer (FSC 5530); Prefabricated Non-Wood Items (FSC 5670).

5520 Millwork
Includes Door Frames; Doors; Window Frames; Window Sashes.
Excludes Molding (FSC 5510); Prefabricated Non-Wood Items (FSC 5670).

5530 Plywood and Veneer
Includes Plywood and Veneered Panels.

GROUP 56
Construction and Building Materials

5610 Mineral Construction Materials, Bulk
Includes Asphalt; Cinders; Gravel; Lime; Sand; Rough Dimension Stone, including Rubble; Cement; Ballast.
Excludes Block, Shaped; Brick.

5620 Tile, Brick and Block
Includes Concrete Building Block; Cinder Block; Slag Brick; Cut Stone; Cut and Polished Stone; Ceramic Floor and Wall Tile; Architectural Terra Cotta; Concrete Slabs and Grilles.
Excludes Glass Building Block (FSC 9340)

5630 Pipe and Conduit, Nonmetallic
Includes Concrete Pipe and Conduit; Clay Pipe and Conduit for underground

use; Drain Tile; Nonmetallic Pipe Fittings for underground use.
Excludes Nonmetallic Pipe, Conduit, and Fittings for laboratory or electrical use; Hose and Tubing, Flexible Nonmetallic.

5640 Wallboard, Building Paper, and Thermal Insulation Materials
Includes Paper Building Board; Ceiling Board; Gypsum Board; Insulating Board; Plasterboard; Soundproofing Board; Tar Paper; Wallpaper; Mineral Wool; Glass Wool Batts; Pipe Covering.
Excludes Electrical Insulation Materials.

5650 Roofing and Siding Materials
Includes Roofing (all materials), including Sheet Metal; Roofing Felt; Roll Roofing; Roofing Tile; Shingles.
Excludes Tar Paper; Bulk Sheet Metal Roofing and Siding; Wood Siding.

5660 Fencing, Fences, Gates and Components

5670 Building Components, Prefabricated
Note-Items specified as wooden are classified in 5520
Includes Door Frames; Window Frames; Window Sashes; Eave Troughs (Gutters); Gratings; Grilles; Shutters; Fixed Fire Escapes; Mounted Partitions.
Excludes Plumbing and associated components such as Sinks; Wallbaord and items classified as furniture.

5675 Nonwood Construction Lumber and Related Materials
Includes Nonwood Dimensional Lumber; Flooring; Special Turning and Carvings; Nonwood Veneer.
Excludes Millwork and Wood Veneer (FSCs 5520 and 5530); Items specified as Wooden (FSC 5510).

5680 Miscellaneous Construction Materials
Includes Expanded Metal Lath; Airplane Landing Mats; Traction Mats.

GROUP 58
Communication, Detection, and Coherent Radiation Equipment

Note-Excludes oscillator items which should be classified in FSC 5955 or 5963; fiber optic items which should be classified in Group 60; electronic modules as defined under Class 5963; and electrical cable, cord and wire assemblies, harnesses and sets, related to FSG 58 equipment (see FSC 5995). In Group 58, more than in any other group, it frequently happens that the same name is listed as an index entry in each of several classes. In addition, that name may also appear as an entry in groups other than 58. Each such entry refers to a distinctly different part or assembly, even though the different items have the same name. The listing of the same names in two or more classes indicates that, in one form, the part or assembly covered by the name is applicable to the equipment covered by one class, and in another form is applicable to the equipment covered by another class. For example, the item name CODER, AUDIO FREQUENCY is applicable to two distinctly different assemblies, one of which has an application in cryptologic equipment, covered by Class 5810, and the other in radar equipment covered by Class 5840. Consequently the name CODER, AUDIO FREQUENCY is an entry under each of the two classes. When an item identification bears a name which is indexed under more than one class of Group 58, or in Group 58 and in some other group, the item will be classified in the same class as its next higher assembly in the manner described in the Federal Logistics Information System (FLIS) Procedures Manual, DoD 4100.39-M. Also excluded from this group are data transmission and communications equipment such as terminals, sensors and other devices designed for use with a configuration of ADPE.

5805 Telephone and Telegraph Equipment

5810 Communications Security Equipment and Components

5811 Other Cryptologic Equipment and Components

5815 Teletype and Facsimile Equipment
Includes Ticker Tape and Sigtot Equipment.

5820 Radio and Television Communication Equipment, Except Airborne
Includes Telemetering Equipment.
Excludes Home Type Radio and Television Equipment.

5821 Radio and Television Communication Equipment, Airborne
Includes Telemetering Equipment.

5825 Radio Navigation Equipment, Except Airborne
Includes Loran Equipment; Shoran Equipment; Direction Finding Equipment.

5826 Radio Navigation Equipment, Airborne
Includes Loran Equipment; Shoran Equipment; Direction Finding Equipment.

5830 Intercommunication and Public Address Systems, Except Airborne
Includes Wired Audio Systems; Office Type Systems; Shipboard Systems; Tank Systems.

5831 Intercommunication and Public Address Systems, Airborne

5835 Sound Recording and Reproducing Equipment
Excludes Phonographs, Home Type; Dictating Machines.

5836 Video Recording and Reproducing Equipment
Note This class includes, and is restricted to electronic video equipment such as video monitors, televisions, cameras, printers and recorders/reproducers used with miscellaneous communication equipment. Also included is associated equipment such as cleaners, splicers, rewinders, reels and tapes designed for use with video recording-reproducing equipment. Excluded from the class is photographic type equipment (Group 67), ADP type computer monitors (Group 70), and video equipment which includes radio receivers/transmitters (properly classified in more specific classes in Group 58).

5840 Radar Equipment, Except Airborne
Note-Radar assemblies and subassemblies designed specifically for use with fire control equipment or guided missiles are excluded from this class and are included in the appropriate classes of Group 12 or Group 14.

5841 Radar Equipment, Airborne
Note-Radar assemblies and subassemblies designed specifically for use with fire control equipment or guided missiles are excluded from this class and are included in the appropriate classes of Group 12 or Group 14.

5845 Underwater Sound Equipment
Note-This class excludes items specifically designed for fire control sonar systems.
Includes Sonar Equipment; Underwater Listening Equipment; Sonobuoys; Sonobuoy Launchers; Fathometers; Sofar Equipment.

5850 Visible and Invisible Light Communication Equipment
Note-This class includes only communication types of infrared equipment. Excluded from this class are infrared assemblies, subassemblies, and components designed specifically for use in fire control systems, guided missile systems, test and maintenance specialized equipment, night vision equipment, and other noncommunication types of equipment.
Includes Heliographs.

5855 Night Vision Equipment, Emitted and Reflected Radiation

Note-This class includes image forming devices and associated aids, their subassemblies and components, utilizing passive and/or active techniques for detection, observation, and identification of terrain and objects at night, while maintaining concealment afforded by darkness. Includes items having multiapplication for purposes of fire control, and/or night observation, and/or detection. Excluded from this class are items for which more specific classifications are suitable as prescribed by the structure and indexes of the FSC.

Includes Sighting and Observation Devices, Target Detectors and Locators, Remote Viewing Systems utilizing heat radiation emitted from object(s), associated Radiation Sources, Image Converters and Image Intensifiers, Optical Cells and other components designed for Night Vision Equipment. Holders and Lens used with Infrared Equipment are also included in this FSC.

Excludes Optical Sighting devices which incorporate both day and night viewing characteristics within an integral unit for fire control purpose, nonnight vision type items designed for use with guided missiles, communications, or laboratory equipment, and Optical Elements, such as Lens, Prisms, Windows.

5860 Stimulated Coherent Radiation Devices, Components, and Accessories

Note-This class includes, and is restricted to, devices the operation of which is based on principles involving the stimulated emission of radiation, and to associated components and accessories directly related to stimulated coherent radiation techniques. The methods for producing the radiation are those obtained by LASER (Light Amplification by Stimulated Emission of Radiation) and by MASER (Microwave and/or Molecular Amplification by Stimulated Emission of Radiation) techniques. Only those items specifically designed for stimulated coherent radiation applications, and having no other application, are to be included in this class. Assemblies or major systems containing such devices are excluded from this class.

5865 Electronic Countermeasures, Counter-Countermeasures and Quick Reaction Capability Equipment

Note-This class includes, and is restricted to, passive and active electronic equipment, systems, and subsystems designed to prevent or reduce an enemy's effective use of radiated electromagnetic energy or designed to insure our own effective use of radiated electromagnetic energy. Includes Electronic Countermeasures, Electronic Counter-Countermeasures, Electronic Support Measures, and Quick Reaction Capability Equipment and components specially designed therefore which are not classifiable elsewhere in the FSC Structure. Excluded from this class are non-electronic items which are properly classified in more specific classes in accordance with the FSC structure and indexes.

5895 Miscellaneous Communication Equipment

Note-This class includes miscellaneous communication equipment that is not classified in more specific classes (see the NOTE for FSG 58).

Includes Modems.

Excludes Electronic Countermeasures Equipment.

GROUP 59
Electrical and Electronic Equipment Components

Note-Mounting hardware, included in classes of this group, includes such specially designed items as brackets, holders, retainers, etc. Excluded from classes in this group are such hardware items as screws (Class 5305), bolts (Class 5306), studs (Class 5307), washers (Class 5310), rivets (Class 5320), and other common items indexed to specific classes, other than in Group 59. The FSC indexes and

structure will govern the classification of items used on or with mounting hardware cited above.

5905 Resistors
Includes Varistors; Resistive ballast Tubes; Rheostats; Resistor Networks; Resistor Mounting Hardware; Thermistors.
Excludes Resistance Wire.

5910 Capacitors
Includes Interference Filter Capacitors; Capacitor Mounting Hardware.
Excludes Semiconductor Devices and Associated Hardware.

5915 Filters and Networks
Note-This class includes those filters and networks which consist of a combination of resistors, capacitors, or coils, but not a combination of resistors only (classified in 5905), capacitors only (classified in 5910), or coils only (classified in 5950).

5920 Fuses, Arrestors, Absorbers, and Protectors
Includes Fuseholders; Fuse Boxes; Fuse Posts; Fuse Links; Fuse Blocks; Current Limiters; Corona Balls; Electrostatic Dischargers.
Excludes Circuit Breakers.

5925 Circuit Breakers
Includes Circuit Breakers and Cutouts.
Excludes Relays.

5930 Switches
Includes Rotary, Knife, Toggle, Push Button, Mercury, Thermostatic, and Differential Pressure Switches.
Excludes Switchgear.

5935 Connectors, Electrical
Includes Plugs; Jacks; Receptacles, Electronic Component Sockets and Associated Accessories
Excludes Interconnectors, Fiber Optic

5940 Lugs, Terminals, and Terminal Strips
Includes Binding Posts; Battery Clips; Stud Terminals; Test Clips.
Excludes Caps, Electrical; Clips, Electrical; and Contacts, Electrical.

5945 Relays and Solenoids
Includes Electromagnetic Actuators.
Excludes Contractors.

5950 Coils and Transformers
Includes Coils, except ignition and magneto; coil assemblies; magnetic amplifiers; reactors; transformers.

5955 Oscillators and Piezoelectric Crystals
Includes Crystal Units, Processed Unmounted Crystals, Crystal Controlled Oscillators and Noncrystal Controlled Oscillators
Excludes Crystal Controlled Oscillators and Noncrystal Controlled Oscillators which meet the definition of the term ″electronic module″ as defined for FSC 5963 and Microcircuits

5960 Electron Tubes and Associated Hardware
Includes Rectifying Tubes; Photoelectric Tubes; Electron Vibrator Tubes.
Excludes Transistors; Tube Sockets; X-ray Tubes; Semiconductor Devices and Associated Hardware.

5961 Semiconductor Devices and Associated Hardware
Includes Semiconductor Assemblies; Semiconductor Diodes; Semiconductor Rectifiers, Semiconductor Thyristors; Transistors; Unitized Semiconductors; Associated Hardware except Sockets.
Excludes Microcircuits; Optoelectronic Devices and Associated Hardware.

5962 Microcircuits, Electronic
Note-(1) A microcircuit is defined as follows: A small circuit having a high equivalent circuit element density, which is considered as a single part composed of interconnected elements placed and/or formed on or within a single substrate to perform an electronic circuit

function. The elements may be formed on or within a semiconductor material substrate; may consist of conductive film(s) formed on an insulating substrate; or may be a combination of one or both of these types with discrete elements. (2) The term ″microcircuit″, as applied to circuit devices included in this class, is delimited to exclude items consisting solely of interconnected ″microcomponents″ (discrete miniaturized components). Also excluded are items fabricated in the form of monolithic thick-film or thin-film structures that in themselves are not functional electronic circuits (e.g., Capacitors, Resistors, Transistors, or ″arrays″ thereof).
Includes Integrated Circuit Devices; Integrated Circuit Modules, Integrated Electronic Devices: Hybrid, Magnetic, Molecular, Opto-Electronic, and Thin Film.
Excludes Single Circuit Elements such as Capacitors; Resistors; Diodes and Transistors; Printed Circuit Boards and Circuit Card Assemblies; and Filters and Networks.

5963 Electronic Modules
Note-The term ″electronic module″ as used in this class designates an electronic component designed for use in various equipment or end item applications, and capable of controlling voltage and/or current to produce gain, oscillation, switching, or similar integral electronic functions. It consists of a collection of miniaturized electronic parts and/or elements in a single replaceable package with plug-in mounting which will also complete the required electrical connections. It is not normally subject to disassembly as distinguished from such items as CIRCUIT CARD ASSEMBLY and ELECTRONIC COMPONENTS ASSEMBLY. These modules conform to industry or government specifications/standards that define all physical dimensions and electrical parameters required to promote commonality and ensure proper operational performance.
Excludes MICROCIRCUITS; Electronic Test Equipment Plug-In Units.

5965 Headsets, Handsets, Microphones and Speakers

5970 Electrical Insulators and Insulating Materials
Includes Tube, Knob, Cleat, Strain, and Standoff Insulators; Feed Thru Insulators; Bead Insulators; Varnish Cambric Tape; Friction Tape.

5975 Electrical Hardware and Supplies
Includes Conduit; Raceways; Face Plates; Condulets; Outlet and Junction Boxes; Pole Line Hardware, not elsewhere classifiable.

5977 Electrical Contact Brushes and Electrodes
Includes Brushes for electrical rotating equipment; Carbon Stock for Brushes; Brush Arm and Holders; Lighting Electrodes.
Excludes Anodes; Cathodes; Welding Electrodes.

5980 Optoelectronic Devices and Associated Hardware
Includes Optoelectronic devices and assemblies which display numeric, alphanumeric, symbolic, or graphic information, emitters, and nondisplay optoelectronic devices, such as couplers, detectors, and switches which perform an active function in an electronic system
Excludes electric lighting fixtures, lamps, and associated hardware

5985 Antennas, Waveguides, and Related Equipment
Includes Aerials; Masts; Tower Equipment; Attenuators; Couplers; Transmission Lines.
Excludes Tower Structures.

5990 Synchros and Resolvers
Excludes Synchro Systems; Servo Mechanisms.

5995 Cable, Cord, and Wire Assemblies: Communication Equipment

Note-This class includes only those types of cable, cord, and Wire Assemblies and Sets (and Wiring Harnesses) used on or with equipment and components covered by Groups 58 and 59. Cable, Cord, Wire Assemblies, and Sets (Wiring Harnesses) used on or with equipment classified in FSC Groups other than Groups 58 or 59 are classified in FSC Class 6150 if multiapplication, or classified with the next higher classifiable assembly if specially designed.

Excludes Cable Assemblies, Fiber Optic.

5996 Amplifiers

Includes Audio Amplifiers, Complementary Amplifiers, Amplifiers, Operational Amplifiers, Power Amplifiers, Radio Frequency Amplifiers, Signal Amplifiers, and Video Amplifiers.

Excludes multi-functional items such as Amplifier-Detector, Amplifier-Mixer and microcircuit devices.

5998 Electrical and Electronic assemblies, Boards, Cards, and Associated Hardware

Excludes circuit card and electronic component assemblies which can be identified to a more definitive Approved Item Name.

5999 Miscellaneous Electrical and Electronic Components

Includes Permanent Magnets and Magnetostriction Elements; Caps, Clips, and Contacts, Electrical.

GROUP 60
Fiber Optics Materials, Components, Assemblies, and Accessories

Note- Fiber Optics is a general term used to describe the function where optical energy (i.e., light/laser driven rays) is guided to another location through fiber(s). This group includes Fiber Optic items such as parts, materials and devices used for communications, data transmission, or illumination, Excludes Imaging devices under FSG 65 (medical); hand tools under FSG 51; and electrical, electronic and optical instruments under FSG 66 (instruments).

6010 Fiber Optic Conductors

Note-Included in this class are bulk discrete fibers.

6015 Fiber Optic Cables

Note-Included in this class are one or more discrete fiber optic conductors with a common protective covering in bulk form. May include electrical conductors/cables and/or reinforcing material.

6020 Fiber Optic Cable Assemblies and Harnesses

Note-Included in this class are items used for communication and/or data transmission having one or more fiber optic conductors/cables with processed end(s) or terminated in fitting(s). Excluded from this class are items used for illumination and/or image transmission.

6021 Fiber Optic Switches

Note-Included in this class are switches used for line selection in fiber optic systems.

6030 Fiber Optic Devices

Note Included in this class are such items as transmitters, receivers, multiplexers, demultiplexers, modulators, demodulators, repeaters, attenuators, filters, integrated optical ciruuits, and the like, used in fiber optic systems.

6032 Fiber Optic Light Sources and Photo Detectors

Note Included in this class are light emitting and laser diodes and photo detectors used in fiber optic systems.

6035 Fiber Optic Light Transfer and Image Transfer Devices

Note-Included in this class are fiber optic devices used for illumination and/or image transmission. Excluded from this class are items used for communication and/or data transmission.

6060 Fiber Optic Interconnectors

Note Included in this class are all types of fiber optic terminations, such as connectors, dividers, couplers, rotary and nonrotary joints, splitters, mixers and splicers and the like.

Excludes electrical connectors

6070 Fiber Optic Accessories and Supplies

Note-Included in this class are mode stripping materials, index matching materials and other related supplies. Excluded from this class are hardware and supplies common to both electrical and fiber optic applications which are classifiable on FSC 5975.

6080 Fiber Optic Kits and Sets

Note-Included in this class are kits and sets which consist of fiber optic components only; fiber optic components and related parts; fiber optic components and related tools; or fiber optic components, related parts and related tools. Excluded from this class are tool kits and sets which are classifiable in FSC 5180; test sets/instruments classifiable in FSG 66; and end item sets/equipment utilizing fiber optic components which are classifiable in the applicable equipment FSC.

6099 Miscellaneous Fiber Optic Components

Note-Included in this class are fiber optic items which are not classifiable in a more specific class. (See the ″Note″ for FSG 60.)

GROUP 61
Electric Wire, and Power and Distribution Equipment

6105 Motors, Electrical

Excludes Starting Motors for Engines.

6110 Electrical Control Equipment

Includes Contactors; Motor Controllers; Power Servomechanisms; Switchgear; Voltage Regulators.

Excludes Automatic Pilot Mechanisms; Relays; Resistors.

6115 Generators and Generator Sets, Electrical

Includes Engine, Turbine, Wind, and Hand Driven Generator Sets and Auxiliary Aircraft Generators.

Excludes Motor-Converters; Motor-Generator Sets; Engine Generators; Engine Accessory Generators.

6116 Fuel Cell Power Units, Components, and Accessories

Note-This class includes items that are designed to produce an electromotive force directly from an oxidation-reduction type of chemical reaction. A complete power unit must include tanks, pumps, and associated control equipment, and requires a continuous, uninterrupted supply of liquid or gaseous fuel and oxidizers.

Includes Complete Functioning Fuel Cell Power Units; Fuel Cells; Fuel Cell Assemblies or Modules; Fuel Cell Reactant Chambers; Fuel Feed Mechanisms; Electrolyte Heaters; Heat Exchangers; and other internal components peculiar to, and used exclusively on or with, Fuel Cell Power Units classified in this class.

Excludes Primary Batteries (FSC 6135); Secondary Batteries (FSC 6140); Generators and Generating Sets (FSC 6115); and items for which more suitable classes are specifically prescribed by the indexes and structure of the FSC.

6117 Solar Electric Power Systems

Note-This class includes items which are designed for the direct conversion of solar energy into electrical power.

6120 Transformers: Distribution and Power Station

Note This class includes transformers with a kilovolt-ampere rating above 1 kva.

Excludes Potential and Current Transformers

6125 Converters, Electrical, Rotating

Note-This class includes devices employing mechanical rotation for changing electrical energy from one form to another (i.e., AC to AC, DC to DC, AC to DC, and DC to AC). Excluded from this class

are electrical generators and generator sets (FSC 6115).
Includes Complete Battery Charging Equipment, Rotating; Dynamotors; Motor-Converters; Motor-Generator Sets; Phase Converters; Rotating Equipment; Synchronous Converters.
Excludes Nonrotating Equipment.

6130 Converters, Electrical, Nonrotating
Note This class includes devices employing a means other than mechanical rotation for changing electrical energy from one form to another (i.e., AC to AC, DC to DC, AC to DC, and DC to AC).
Includes Complete Battery Charging Equipment, Nonrotating; Power Supplies, Multiapplication.
Excludes Rectifying Tubes; (FSC 5960); Rectifying Crystals (FSC 5961); Rotating Equipment (FSC 6125); Transformers (FSC 5950); and Semiconductor Devices and Associated Hardware (FSC 5961).

6135 Batteries, Nonrechargeable
Includes Cells and Dry Batteries; Nuclear Batteries.

6140 Batteries, Rechargeable
Includes Rechargeable Cells and Batteries.

6145 Wire and Cable, Electrical
Note-This class includes only bulk electrical wire and cable. Excluded from this class are electrical wire and cable items of definite length either with processed ends, or terminated in fittings.
Includes Insulated and Noninsulated, Wire and Cable, such as, Antenna Wire, Coaxial Cable, Fuse and Resistance Wire, and Magnet Wire.
Excludes Radio Frequency Transmission Line (FSC 5985); Fiber Optic Cable (FSC 6015); Communication Cable Assemblies (FSC 5995); Distribution and Power Transmission Cable Assemblies (FSC 6150).

6150 Miscellaneous Electric Power and Distribution Equipment
Includes Appliance and Extension Cords; Electric Power and Distribution Cable with Attachments, Multiapplication; Common Components of Electrical Rotating Equipment, such as End Bells and Frames.

6160 Miscellaneous Battery Retaining Fixtures, Liners and Ancillary Items
Includes Battery Boxes, Covers, Liners, Racks, Retainers, and Trays.

GROUP 62
Lighting Fixtures and Lamps

6210 Indoor and Outdoor Electric Lighting Fixtures
Includes Airport, Railroad Platform, Stadium, and Street Lighting Fixtures.
Excludes Nonelectrical Outdoor Fixtures; Signal Fixtures; Nonelectrical Indoor Fixtures.

6220 Electric Vehicular Lights and Fixtures
Includes Automotive, Marine, Railroad, and Aircraft Lights and Fixtures.
Excludes Nonelectrical Vehicular Fixtures.

6230 Electric Portable and Hand Lighting Equipment
Includes Floodlights; Searchlights; Extension Lights.
Excludes Nonelectrical Portable and Hand Lighting Equipment; Signal and Alarm Equipment.

6240 Electric Lamps
Includes Fluorescent Lamps; Incandescent Lamps, Large and Miniature; Mercury Lamps; Sodium Lamps.

6250 Ballasts, Lampholders, and Starters

6260 Nonelectrical Lighting Fixtures
Includes Lanterns, Nonelectrical; Hand and Portable Carbide Lamps; Candles.

GROUP 63
Alarm, Signal and Security Detection Systems

6310 Traffic and Transit Signal Systems
Excludes Railroad Signals.

6320 Shipboard Alarm and Signal Systems

6330 Railroad Signal and Warning Devices
Includes Railroad Gates; Flasher Lights; Block Signals.
Excludes Semaphore Flag Signals.

6340 Aircraft Alarm and Signal Systems
Includes Oxygen Pressure Signals and Warning Devices; such as Air Pressure Warning Signals, Aircraft Crew Warning Signals, Altitude Warning Signals, Alarm Controls, Audible Landing Gear Alarms.
Excludes Aircraft Engine Oil and Fuel Warning Devices.

6350 Miscellaneous Alarm, Signal, and Security Detection Systems
Includes Anti-intrusion Alarm Systems; Foghorns; Gongs; Chimes; Bells; Burglar Alarm Systems; Fire Alarms; Police Alarm Systems; Sounding Devices; Manual Gas Alarms; Landing Wands.
Excludes Loran; Radar; Sonar; Engine Oil and Fuel Warning Devices; Aircraft Oxygen Warning Devices.

GROUP 65
Medical, Dental, and Veterinary Equipment and Supplies

6505 Drugs and Biologicals
Only items specifically formulated for human use are appropriate to this class.
Includes all drugs, medicinal grade chemicals, and Biologicals subject to the Federal Food, Drug and Cosmetic Act, listed in the Monograph section of the U.S. Pharmacopeia or the National Formulary or covered by the United States Adopted Names (USAN). Other nations may apply their own legal documents.
Excludes medicated cosmetics and toiletries classifiable in FSC 6508 and in vitro diagnostic substances and reagents classifiable in FSC 6550, and Veterinary Drugs and Biologicals classifiable in FSC 6509.

6508 Medicated Cosmetics and Toiletries
Includes medicated cosmetics and toiletries that have been determined to be drugs in accordance with the Federal Food, Drug, and Cosmetic Act.
Excludes nonmedicated cosmetics and toiletries which are classifiable in Group 85.

6509 Drugs and Biologicals, Veterinary Use
Includes All Drugs, medicinal grade chemical, and Biologicals subject to the provisions of the Department of Agriculture (Veterinary Drugs and Biologicals) specifically formulated for Veterinary use. Other Nations may apply their own legal documents.
Excludes Drugs and Biologicals specifically formulated for Human use classifiable in FSC 6505.

6510 Surgical Dressing Materials
Includes Bandages, Compresses, Dressings, Gauze, Pads, Sponges, and impregnated surgical dressing materials.

6515 Medical and Surgical Instruments, Equipment, and Supplies
Includes Anesthesia Apparatus; Blood Transfusion Apparatus; Oxygen Therapy Apparatus; Respirators; Orthopedic Supplies; Arch Supports; Clinical Thermometers; Sutures; Hearing Aids; Veterinary Equipment; Endoscopes, Fiber Optic.
Excludes Opthalmic Instruments, Equipment, and Supplies; Non-Medical Endoscopes.

6520 Dental Instruments, Equipment, and Supplies
Includes Dental Engines; Dental Laboratory Equipment; Operating Chairs; Orthodontic Appliances; Teeth; Dental Metals; Dental Abrasives; Dental Laboratory Furniture.

6525 X-ray Equipment and Supplies: Medical, Dental, Veterinary

Includes Medical X-ray Film; Medical X-Ray Film Viewing Equipment; Medical X-Ray Film Processing and Finishing Equipment and Supplies; X-Ray Tubes.

Excludes Industrial X-Ray Equipment.

6530 Hospital Furniture, Equipment, Utensils, and Supplies

Includes Orthopedic Equipment; Operating Lights; Physiotherapy Equipment; Sterilizers; WheelChairs; Litters; Hospital Beds; Restraint Equipment.

6532 Hospital and Surgical Clothing and Related Special Purpose Items

Includes Only those clothing items which are required exclusively for use in hospital operations, or in medical or dental facilities, which have no functional counterpart elsewhere in Federal Organizations participating in the Federal Catalog System.

Excludes General purpose items of clothing and fabricated textile material.

6540 Ophthalmic Instruments, Equipment, and Supplies

Includes Ophthalmic Lens Cutting and Grinding Machine; Ophthalmic Lenses and Lens Blanks; Spectacle Frames; Ophthalmological and Optometric Instruments, Equipment, and Supplies.

Excludes Optical Lens Cutting and Grinding Machines: Ophthalmoscope and Otoscope Set; Surgical Instruments and Supplies that can be used by other medical disciplines; i.e., sutures, eye pads, eye shields, eye bath, and the like.

6545 Replenishable Field Medical Sets, Kits, and Outfits

Excludes Sets and kits which can be logically classified in another FSC Class in Group 65, such as Insect Sting Kit; Otoscope and Opthalmoscope Set; In Vitro Diagnostic Test Kits; and the like.

6550 In Vitro Diagnostic Substances, Reagents, Test Kits and Sets

Includes In vitro diagnostic aids, such as test tablets, test slides, test strips, test cards, test papers, test solutions, reagents; sets and kits designated for in vitro qualitative and quantitative tests on specimens, such as blood, urine, feces, and the like, for the purposes of aiding in the medical diagnosis of disease, determining body organ dysfunction, or other abnormal conditions.

Excludes In vivo diagnostic substances classifiable in FSC 6505.

GROUP 66
Instruments and Laboratory Equipment

Note-Infrared assemblies (including subassemblies and components) designed specifically for use as or with instruments and laboratory equipment are included in the classes of this group. Also included are computers (including computer assemblies, computer systems and components) designed specifically for use with instruments and laboratory equipment.

6605 Navigational Instruments

Includes Azimuths; Sextants; Octants; Compasses; Plotting Boards; Underwater Log Equipment; Air Position Indicators; Drift Meters.

6610 Flight Instruments

Includes Air Speed Indicators; Rate of Climb Indicators; Bank and Turn Indicators; Pitot Tubes; Gyro Horizon Indicators; Attitude Gyro Indicators.

Excludes Navigational Instruments (FSC 6605).

6615 Automatic Pilot Mechanisms and Airborne Gyro Components

Note Included in this class are gyro components of guided missiles. Excluded are complete gyro mechanisms and non-airborne gyro components, both of which are classified in the same classes as their next higher assemblies.

Includes Automatic Pilot Regulators; Directional, Vertical, Bank and Turn, and Hydraulic Surface Gyro Controls; Airborne and Shipborne Automatic Pilot Mechanisms; Helicopter Automatic Stabilization Equipment.
Excludes Automatic Pilot Training Devices (FSC 6930); and Automatic Pilot Mechanisms, Guided Missile (FSC 1420).

6620 Engine Instruments
Note-Instruments designed for use on both engines and other than engines are not included in this class and should be classified in the appropriate instruments class of Group 66.
Includes All Engine Instruments, including Aircraft, Marine, and Vehicular; Fuel Pressure Gages; Manifold Pressure Gages; Oil Pressure Gages; Fuel Mixture Indicators; Engine Oil and Fuel Warning Devices.

6625 Electrical and Electronic Properties Measuring and Testing Instruments
Note-This class includes all ″basic″ types of electrical and electronic test instruments, such as ammeters, voltmeters, ohmmeters, multimeters, and similar instruments, even if specially designed. Excluded from this class by the modifier ″except specially designed″ are test instruments, other than ″basic″ instruments, which are specially designed for use with atomic ordnance, fire control, guided missile, motor vehicle, aircraft, or photographic equipment. Such specially designed test instruments are to be classified in other classes in the Federal Supply Classification. This class includes communications test equipment, infrared test equipment designed for communication, and night vision maintenance and test specialized equipment.
Includes Test Leads and Test Lead Attachments; Test instruments designed for communication equipment; Test instruments designed for use with electronic equipment classified in two or more FSC groups.
Excludes Radiac Equipment

6630 Chemical Analysis Instruments
Includes Acidity (pH) Meters; Gas Analyzers; Alakalinity Measuring Instruments; Colorimeters.
Excludes Gas Detecting Equipment; Manual Gas Alarms; Chemicals; In Vitro Diagnostic Substances and Reagents.

6635 Physical Properties Testing and Inspection
Includes Destructive and Nondestructive Inspection Equipment such as Fluorescent Penetrant Inspection Units; Magnetic Inspection Units; Industrial X-Ray Machines; Industrial X-Ray Film; Tensiometers; Material Hardness Testers.
Excludes General prupose Measuring Tools (FSC 5210) and Precision Measuring Tools and Inspection Gages (FSC 5220).

6636 Environmental Chambers and Related Equipment
Note This class includes only those environmental chambers used exclusively to perform controlled tests, under simulated conditions, to determine physical damage and/or changes in operating characteristics for equipments and components such as Humidity; Immersion; Moisture; Altitude; Explosion; Thermal Shock; Sand and Dust; Flammability; Seal. Environmental chambers included in this class provide data regarding service life and behavior of various items equivalent to actual service conditions existing in the field.
Includes Chambers; Wind Tunnels; Enclosures specifically designed to simulate an environmental condition; Weatherometers; Fadeometers; Specially designed equipment and components exclusively related to environmental chambers.
Excludes General purpose prefabricated buildings, chambers, panels, and components (FSC 5410); Controlled Environmental Conditioning Kits and Sets (FSC 4240); Baths (FSC 4510); Ovens (FSC 7310); Kilns (FSC 3630); Radiosonde Baseline Check Sets (FSC 6660); Divers Recompression Chambers (FSC 4220); Altitude Training Decompression Cham-

bers (FSC 6930); and Chambers used as training devices (FSC 6930); Checkout and Test Equipment (FSC 6625); Chemical Analysis Instruments (FSC 6630); Electrical and Electronic Properties Measuring and Testing Instruments (FSC 6625); and Meteorological Instruments (FSC 6660).

6640 Laboratory Equipment and Supplies
Includes Laboratory Glassware; Laboratory Funnels; Laboratory Furnaces; Glass Beads; Laboratory White Sand; Litmus Paper; Paper Filters; Insect Transfixion Pins; Laboratory Glass Wool; Laboratory Furniture, except Dental Laboratory.
Excludes Instruments covered by other classes in group 66; Dental Laboratory Equipment; Laboratory Scales and Balances; In Vitro Diagnostic Substances and Reagents.

6645 Time Measuring Instruments
Includes Clocks; Job Recording Devices; Time Recorders; Time Stamps, Watch and Clock Movements; Watches.

6650 Optical Instruments, Test Equipment, Components and Accessories
Includes Binoculars; Magnifiers; Microscopes; Periscopes; Telescopes; Optical Elements; such as Lens, Prisms, Windows; Optical Benches and Associated Devices; Endoscopes, Fiber Optics (Non-Medical).
Excludes Fire Control Instruments, Optical; Surveying Instruments, Optical; Photogrammetric Instruments; Octants; and Sextants; Optical Instruments Integrated with Fire Control Equipment; Opthalmological Instruments; Electronic Fiber Optic Test Equipment; Medical Endoscopes.

6655 Geophysical Instruments
Includes Geodetic, Oceanographic and Seismographic Instruments.
Excludes Telescopes.

6660 Meteorological Instruments and Apparatus
Includes Meteorological Ballons; Radiosonde Sets; Radarsonde Sets.

6665 Hazard-Detecting Instruments and Apparatus
Includes Radiac Equipment; Gas Detecting Equipment; Land Mine Detecting Equipment.
Excludes Manual Gas Alarms (FSC 6350).

6670 Scales and Balances
Includes Coin Operated, Household, Industrial, Postal, and Laboratory Scales and Balances.

6675 Drafting, Surveying, and Mapping Instruments
Includes Drawing Instruments, Drafting Tools; Engineering and Architectural Scales; Levels; Transits; Photogrammetric Instruments; Astrolabes; Level Rods; Plane Tables; Surveying Altimeters; Theodolites.
Excludes Surveyors' Tapes.

6680 Liquid and Gas Flow, Liquid Level, and Mechanical Motion Measuring Instruments
Includes Liquid Level Float Instruments; Revolution Counters; Speedometers; Rotation Measuring Instruments and Apparatus; Oxygen Flow Indicators; Tachometers, including Engine Tachometers.
Excludes Combination Instruments; (FSC 6695); Meteorological Instruments (FSC 6660); and Automatic Control Valves (FSG 48).

6685 Pressure, Temperature, and Humidity Measuring and Controlling Instruments
Includes Thermometers, including Engine Thermometers; Pressure Gages; Thermocouple Leads; Resistance Bulbs.
Excludes Clinical Therometers; (FSC 6515); Thermostatic and Differential Pressure Switches (FSC 5930); and Meteorological Instruments (FSC 6660).

6695 Combination and Miscellaneous Instruments
Includes Flow-Pressure Instruments; Taximeters; Dynamometers.
Excludes Dental, Medical, Surgical, and Veterinary Instruments.

GROUP 67
Photographic Equipment

Note-Included are computers (including computer assemblies, computer systems and components) designed specifically for use with photographic equipment.

6710 Cameras, Motion Picture
Includes Aerial and Mapping Cameras.
Excludes Television Cameras, Nonairborne (FSC 5820); Television Cameras, Airborne (FSC 5821); Video Cameras (FSC 5836).

6720 Cameras, Still Picture
Includes Aerial, Mapping, Microfilm, Photocopy, and Studio Cameras.
Excludes X-Ray Cameras (FSC 6525), and Industrial X-Ray Machine (FSC 6635).

6730 Photographic Projection Equipment
Includes Screens; Viewers; Photomap Projectors; Integrated Viewers/Printer and Microform storage and retrieval systems.

6740 Photographic Developing and Finishing Equipment
Includes Editing Equipment; Enlargers; Driers; Pressers; Printers; Washers.

6750 Photographic Supplies
Includes Sensitized Photographic Paper; Special Purpose Photographic Chemicals; Unprocessed Film; Photoflash Lamps.
Excludes X-Ray Film (Medical Class 6525 or Industrial Class 6635); Electrographic (Facsimile) Paper for direct electrostatic printing or copying (FSC 7530).

6760 Photographic Equipment and Accessories
Includes Light Meters; Tripods; Filters; Range-finders; Photographic Floodlight Fixtures; Lenses; Specialized Photographic Test Equipment.
Excludes Lamps (bulbs) (FSC 6240); Photoflash Lamps (FSC 6750).

6770 Film, Processed
Includes Motion Picture Film, Silent and Sound; Still Picture Film.
Excludes X-Ray Film (Medical class 6525 or Industrial class 6635); Training and Educational Film (FSC 6910); Processed Microfilm (FSC 7670).

6780 Photographic Sets, Kits, and Outfits

GROUP 68
Chemicals and Chemical Products

Note-In general, individual nonmedicinal chemical elements and compounds are classified in Class 6810. Combinations (or mixtures) of chemical compounds, or chemicals prepared in a particular vehicle (other than water) are generally classified according to use, in classes other than 6810. For example, the chemical compound DDT, is classified in 6810, whereas DDT liquid spray, the insecticide, is classified in 6840-Pest Control Agents and Disinfectants. Similarly items of supply bearing nonchemical names such as BLEACH; INSECTICIDE, ROACH; and ANTI-FREEZE are generally classified according to use, in classes other than 6810, whereas corresponding chemical compounds, such as sodium hypochlorite solution, chlordane, and ethylene glycol are classified in 6810. Medicinal chemicals are generally classified in 6505-Drugs and Biologicals; in vitro diagnostic substances and reagents are classified in 6550-In Vitro Diagnostic Substances, Reagents, Test Kits and Sets. Excluded from this group are liquid chemicals designed exclusively for use as propellant fuels and oxidizers.

6810 Chemicals
Includes Naphtha Solvents; Water Softening Compounds; Tanning Materials, Natural or Synthetic; Dextrines and Starches; Inedible Gelatins; Acetone; Propellant Chemicals, Bulk, not Specialized Solely for Guided Missile Use.
Excludes Medicinal Chemicals; Gases; Foundry dextrines; Radiographic and Photographic Chemicals; In Vitro Diagnostic Substances and Reagents.

6820 Dyes
Includes Household Tints

6830 Gases: Compressed and Liquefied
Includes Fuel Gases.
Excludes Military Chemical Gases; Medical Gases; Empty Gas Cylinders and their caps, valves, and valve spare parts.

6840 Pest Control Agents and Disinfectants
Includes Insect Repellents; Fungicides; Insecticides; Rodenticides; Weed Killers.
Excludes Personal Deodorants.

6850 Miscellaneous Chemical Specialties
Includes Antifogging Compounds; Wetting Agents; Etching and Fountain Solutions for Lithographing; Blanket Repair Solutions for Lithographing; Antifreeze.

GROUP 69
Training Aids and Devices

Note-Included are computers (including computer assemblies, computer systems and components) designed specifically for use as, or with training aids and devices.

6910 Training Aids
Includes Mockups; Cutaway Models; Scale Models; Training Films; Training Aid Maps; Navigational Training Aids; Flight Instrument Training Aids; Aircraft Instrument Training Aids; Vehicle Training Aids; Engine Instrument Training Aids; Hydraulic System Training Aids; Cutaway, Mockup, or Sectionalized Ammunition only; Training Equipment normally used in classroom training.
Excludes Drill, Dummy, Exercise, Practice, or Simulated Ammunition and Weapons.

6920 Armament Training Devices
Includes Bombing Trainers; Gunnery Trainers; Tow Targets; Gunnery Targets; Guided Missile Training Sets.
Excludes Target Drones; Drones for such use as training, surveillance, missile evaluation, and photographic reconnaissance; Atomic Ordnance Training Devices; Training Aids; Drill, Dummy, Exercise, Practice, or Simulated Ammunition and Weapons.

6930 Operation Training Devices
Includes Link Trainers; Automatic Pilot Training Devices; Drift Meter Training Devices; Celestial Navigation Trainers; Dead Reckoning Navigation Trainers; Instrument Flying and Landing Trainers; Terrain Projection Trainers; All operational training devices except communication and armament.
Excludes Training Aids.

6940 Communication Training Devices
Includes Supersonic Radar Trainers; Navigational Radar Trainers; Search and Detecting Radar Trainers; Code Practice Equipment.
Excludes Training Aids.

GROUP 70
Automatic Data Processing Equipment (Including Firmware), Software, Supplies and Support Equipment

7010 ADPE System Configuration
Note-a group of general purpose analog, digital, or hybrid electronic or electromechanical devices that are interconnected to operate as a system. Frequently referred to as an ADP system, although the term ″system″ is not considered definitive. Includes an assembly of devices consisting of a central processing unit (CPU) and the necessary input/output devices, accessorial devices, analog measurement devices, software and/or firmware required to perform the desired objectives. Also includes sub-assemblies and units in which input/output devices, CPUs, and/or accessorial devices or components are incorporated into a single assembly or unit. A specially designed device incorporated into a system shall not influence the classification of the base assembly or unit.

7020 ADP Central Processing Unit (CPU, Computer), Analog

Note-An analog is a representation in one form of a physical condition existing in another form (e.g., the level of mercury in a tube represents temperature in a thermometer; the angular position of a needle represents speed on a speedometer). This class includes only CPUs that accept as inputs the electrical equivalent of physical conditions such as flow, temperature, pressure, angular position or voltage and perform computations by manipulating these electrical equivalents to produce results for further use.

7021 ADP Central Processing Unit (CPU, Computer), Digital

Note-Digital refers to the representation of discrete numbers, symbols and alphabetic characters by a predetermined, coded combination of electrical impulses. This class includes only CPUs that accept information represented by digital impulses. Specifically, a device capable of performing sequences of arithmetic and logic operations (a program) not only on data but also on the program which is contained in its internal memory (storage) without intervention of an operator.

7022 ADP Central Processing Unit (CPU, Computer), Hybrid

Note-Hybrid refers to a combination of analog and digital capability as defined in Classes 7020 and 7021 with conversion capability required for intercommunication.

7025 ADP Input/Output and Storage Devices

Note This class includes devices used to control and transfer information to and from a Computer (as modified). The input device is used for transferring data and instructions into a computer. The output device is used to transfer results of processing by the computer to ADP peripheral devices. Input/output devices combine the above functions in the same device. This class includes printers, display units, disk drive units (magnetic, optical and floptical), tape drive units, terminals, data entry devices and transfer units. Also includes Optical Compact Disk (CD) devices used for the storage and retrieval of data and firmware.

7030 ADP Software

Note-Software is a series of instructions or statements in a form acceptable to a CPU, designed to cause the ADPE configuration to execute an operation or operations; or a collection of data in a form capable of being processed and operated on by a computer.

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; and application programs, such as payroll, inventory control, and engineering analysis programs.

Excludes Software designed to Government specifications to satisfy the requirements of a particular user or for use with ADPE properly classifiable in an FSG other than FSG 70. Also excludes operating manuals and programmers' manuals properly classified in FSG 76.

7035 ADP Support Equipment

Note This class includes various devices and associated control units which are designed for use in combination or conjunction with an ADPE configuration but are not part of the configuration itself. ADP support equipment includes magnetic tape testing, certifying, and cleaning equipment; disk pack testing, certifying and cleaning equipment; tape equipment, rewinders, splicers, spoolers and card reconditioners. Included in this class are complete units and components of related general purpose commercially available support equipment which are not specifically designed for use as part of a system such as a weapon system, control system, digital image processing system, missile system, communication system or navigation system. Also included are support control systems and

components not specifically designed for use with process control such as automatic machine tool processing operations in which flow, pressure, temperature or other parameters are controlled by instrument regulations in automatic machine tool and process operations.

7040 Punched Card Equipment
Includes Collating machines, key punch machines, tabulating machines; verifiers; reproducers; summary punches, sorters; interpreters.
Excludes Card actuated machines designed for use with an ADPE system.

7042 Mini and Micro Computer Control Devices
Includes Mini or micro computers used as control mechanisms where computer technology is essential in controlling, monitoring, measuring, and directing processes, devices, instruments or other equipment.
Excludes Mini and micro computer control devices which are designed specifically for use in and/or integral to higher order systems, e.g., aircraft fire control systems, numerically controlled machine tools, sequence controlled printing equipment, motion measuring instruments, office information system equipment, and the like.

7045 ADP Supplies
Note This class includes ADP tape seal bands, reels and hubs, carrying cases, canisters, and the like. Also includes all nonrecorded magnetic recording media designed to be used with ADP equipment, such as magnetic tape, removable disk packs, magnetic cards, cassettes, and diskettes. Also includes Optical Disks used for the storage of data.

7050 ADP Components
Note-This class includes ADP Component Assemblies that are parts of analog, digital or hybrid data processing devices. Excluded from the class are items for which more specific classifications are suitable. The FSC structure and indexes will govern the classification of those items permitted classification in a single class only.

GROUP 71
Furniture

7105 Household Furniture
Includes Bedsprings, Open Style (All-metallic); Folding Chairs; Camp Furniture; Mirrors, Wall Mounting and Furniture Types; Smoking Stands.
Excludes Hospital Beds and Bedsprings; Ash Trays; Mattresses; Bedsprings, Box Style (Fabric Covered).

7110 Office Furniture
Includes Filing Cabinets; Safes; Post Office Furniture; School Furniture; Blackboards.
Excludes Dental X-Ray Film Protective Safes; Visible Record Equipment.

7125 Cabinets, Lockers, Bins, and Shelving
Includes Kitchen Cabinets; Sectional Shelving.
Excludes Foot Lockers; Filing Cabinets.

7195 Miscellaneous Furniture and Fixtures
Includes Stone, Clay, and Concrete Furniture; Auditorium and Theater Furniture; Library Furniture; Cashier Stands.

GROUP 72
Household and Commercial Furnishings and Appliances

7210 Household Furnishings
Includes Household Furnishings of Textiles, Plastics, Paper, Rubber, and other materials; Sheets, Pillows, Blankets, and other Bedding; Insect Bars; Tablecloths; Towels; Steamer Rugs; Mattresses; Bedsprings, Box style (Fabric Covered); Bedspring and Mattress Sets.
Excludes Floor Coverings; Curtains; Draperies; Paper Napkins; Paper Doilies; Bedsprings, Open Style (All-Metallic).

7220 Floor Coverings
Includes Linoleum; Rubber and Asphalt Tile; Carpets; Rugs; Rug Pads.
Excludes Vehicular Floor Mats.

7230 Draperies, Awnings, and Shades
Includes Curtains; Specialized Hardware and Fittings for Curtains, Draperies, Venetian Blinds, and Window Shades.

7240 Household and Commercial Utility Containers
Includes Refuse Cans; Sprinkling Cans; Clothes Hampers; Household Basket; Fabric Utility Containers.

7290 Miscellaneous Household and Commercial Furnishings and Appliances
Includes Fireplace Sets; Vases and Urns; Household Sewing Machines.

GROUP 73
Food Preparation and Serving Equipment

7310 Food Cooking, Baking, and Serving Equipment
Note-This class includes warming and/or chilling equipment used for the display and serving of food.
Includes Warming and/or Chilling Tables, Stationary and Portable; Serving Carts; Field and Mobile Baking Ovens; Toasters; Waffle Irons; Grills; Special Aircraft, Marine, and Railway Type Food Cooking Equipment; Utensils with Integral Heating Units; Cafeteria Type Display Cases and Showcases; Soda Fountains; Milk, Soda, and/or Ice Cream Dispensers; Cold Food Counters; Combination Heated-Refrigerated Food Serving Equipment; Carbonators; and other types of refrigerated food serving and display equipment commonly used in cafeterias, mess hall kitchens, and the like.
Excludes Carts other than Serving; Commissary or Food Store Type Refrigeration Equipment; Commercial Household, or Professional and Scientific Refrigerators; Drinking Fountains; (see Class 4110 for items excluded from Class 7310).

7320 Kitchen Equipment and Appliances
Includes Dishwashing Machines; Food Slicing Machines; Food Mixers; Utility Carts Specially designed for use in Kitchen and Dining Area.
Excludes Sinks; Serving Carts (see Class 7310 for Food Serving Carts).

7330 Kitchen Hand Tools and Utensils
Includes Pots; Pans; Can Openers; Graters; Food Mashers; Cleavers; Vacuum Bottles and Jugs.
Excludes Utensils with Integral Heating Units; Knives; Forks; Spoons.

7340 Cutlery and Flatware
Includes Knives; Forks; Spoons; Hunting Knives.

7350 Tableware
Includes China and Earthenware; Glassware; Paper Plates and Cups.

7360 Sets, Kits, Outfits and Modules, Food Preperation and Serving

GROUP 74
Office Machines, Text Processing Systems and Visible Record Equipment

7420 Accounting and Calculating Machines
Includes Accounting and adding machines and electronic calculators.
Excludes Punched card system machines; Machines or devices that can be applied to a variety of problems by the internal execution of a series of instructions, not limited to specific keystroke functions, but controlled by a general purpose data processing language.

7430 Typewriters and Office Type Composing Machines
Includes Typewriters and office type composing machines with built-in electric/electronic functions such as margins, headings, tabs, centering and related actions.
Excludes Typewriters and office type composing machines which are designed primarily for use as a component of an

ADPE system or that are user programmable, and that can be applied to a variety of applications by the internal execution of a series of instructions, not limited to specific keystroke functions, but controlled by some form of general purpose data processing language.

7435 Office Information System Equipment
Includes Minicomputer and microcomputer controlled systems specifically designed for user programmable processing of the office information application; Connected peripheral equipment; Automatic repetitive typewriters; Text editing typewriters and video display text editing typewriters.
Excludes General purpose ADPE which is designed primarily to be applied through the internal execution of a series of instructions, not limited to specific keystroke functions, but controlled by a general purpose data processing language, to process a variety of applications such as financial management, logistics, scientific, communications, and the like.

7450 Office Type Sound Recording and Reproducing Machines
Includes Dictating Machines; Transcribing Machines; Combination Dictating and Transcribing Machines.
Excludes Communication Type Sound Recording and Reproducing Machines.

7460 Visible Record Equipment
Includes Manually operated and power operated visible record equipment; visible index files, rotary and stationary; specially designed components, such as Wire and Bar Pockets, Cover Plates, Stop Wires, and Channel Stops; Control Boards; Binder Racks; devices and systems designed to automatically store and retrieve hard copy documents. For those microform automatic retrieval systems that contain an integral viewer or view/printer, see Class 6730.

7490 Miscellaneous Office Machines
Includes Addressing Machines; Check Handling Machines; Coin Counting Machines; Mailing Machines, Currency Handling Machines.
Excludes Pencil Sharpeners; Staplers, Office Type; Duplicating Equipment.

GROUP 75
Office Supplies and Devices

7510 Office Supplies
Includes Crayons; Erasers; File Holders; Writing Ink; Printing Ink; Paper Fasteners; Pencils; Penholders and Pen Points; Rulers, Office Type; Art Supplies; Tape, Pressure Sensitive Adhesive.
Excludes Office Devices; Fountain Pens; Artists' Brushes; Paper Stationery; Record Forms; Mechanical Pencils.

7520 Office Devices and Accessories
Includes Copyholders; Fountain Pens and Pen Desk Sets; Pencil Sharpeners; Paper Punches; Staplers, Office Type; Artists' Accessories, such as Easels, Airbrushes; Slide Rules.

7530 Stationery and Record Forms
Includes Business Forms; Record Books; Surveyors' Computation Forms; Electric Accounting Machine (EAM) Cards; Forms approved for use within individual government activities.
Excludes Standard forms approved for government-wide use.

7540 Standard Forms
Includes Only those standard forms approved for government-wide use by the government activities empowered to do so (such as the U.S. Bureau of the Budget and the U.S. General Accounting Office, and similar organizations in other NATO countries).
Excludes Forms approved for use within individual government activities.

GROUP 76
Books, Maps, and Other Publications

7610 Books and Pamphlets
Includes Technical and Nontechnical Books and Pamphlets; Regulations; In-

struction Manuals; Technical Orders.
Excludes Sheet and Book Music; Periodicals; Bibles.

7630 Newspapers and Periodicals

7640 Maps, Atlases, Charts, and Globes
Excludes Training Aid Maps

7641 Aeronautical Maps, Charts and Geodetic Products

7642 Hydrographic Maps, Charts and Geodetic Products

7643 Topographic Maps, Charts and Geodetic Products

7644 Digital Maps, Charts and Geodetic Products

7650 Drawings and Specifications
Includes Federal, Military, and Departmental Specifications.

7660 Sheet and Book Music
Excludes Hymnbooks.

7670 Microfilm, Processed

7690 Miscellaneous Printed Matter
Includes Decals; Printed Posters; Printed Labels.
Excludes Sheet and Book Music.

GROUP 77
Musical Instruments, Phonographs, and Home-Type Radios

7710 Musical Instruments
Note-This class includes only complete musical instruments. Assemblies, parts, attachments, or accessories for use in or on musical instruments are classified in classes other than this class.
Excludes Phonographs; Radios; Television Sets.

7720 Musical Instrument Parts and Accessories
Includes Instrument Cases; Music Stands; Tuning Forks.

7730 Phonographs, Radios, and Television Sets: Home Type
Note-This class includes only complete home-type phonographs, complete home-type radios, and complete home-type television sets. End items, assemblies, parts, attachments, or accessories for use in or on the above are classified in classes other than this class.
Includes Combination Sets.
Excludes Coin Operated Phonographs; Wire and Tape Recorders.

7735 Parts and Accessories of Phonographs, Radios, and Television Set: Home Type
Includes: Remote Control Handsets
Excludes: Batteries (FSC 6135/6140), Charger, Battery (FSC 6130), Headset (FSC 5965), Microphone (FSC 5965), Power Adapter/Supply (FSC 6130), and Speakers (FSC 5965)

7740 Phonograph Records
Excludes Training Aid Records.

GROUP 78
Recreational and Athletic Equipment

7810 Athletic and Sporting Equipment
Includes Baseball Equipment; Basketballs; Boxing Gloves; Fencing Masks; Fishing Tackle, except Commercial; Handballs; Shin Guards, Hockey.
Excludes Athletic and Sports Clothing.

7820 Games, Toys, and Wheeled Goods
Includes Baby Carriages; Checkers; Doll Carriages; Dolls; Playing Cards; Velocipedes; Handicraft Kits, not elsewhere classifiable.

7830 Recreational and Gymnastic Equipment
Includes Slides; Swings; Amusement Park and Shooting Gallery Equipment; Play Yard and Playground Equipment; Billiard and Pool Tables and Equipment; Gymnasium Equipment.

GROUP 79
Cleaning Equipment and Supplies

7910 Floor Polishers and Vacuum Cleaning Equipment
Includes Domestic and Industrial Vacuum Cleaning Equipment; Carpet Sweepers.
Excludes Self-propelled and Trailer Mounted Vacuum Cleaners.

7920 Brooms, Brushes, Mops, and Sponges
Includes Squeegees; Whisk Brooms.
Excludes Hair Brushes; Toothbrushes; Paint and Artists' Brushes.

7930 Cleaning and Polishing Compounds and Preparations
Includes Scouring Powders; Washing Compounds; Detergents; Nontoilet Soaps; Automobile and Household Polishes and Waxes.
Excludes Shaving Soap; Toilet Soap; Abrasive Polishing Compounds; Metal Finishing Abrasives; Surgical Detergents.

GROUP 80
Brushes, Paints, Sealers, and Adhesives

8010 Paints, Dopes, Varnishes, and Related Products
Includes Water Paints; Oil Paints and Latex; Driers; Paint Primers; Lacquers; Paint Sealers; Pigments for Coloring; Stains; Turpentine; Paint Removers.
Excludes Acetone, Wood and Wall Fillers.

8020 Paint and Artists' Brushes
Excludes Airbrushes.

8030 Preservative and Sealing Compounds
Includes Fire Resistant Compounds; Water Resistant Compounds; Weather Resistant Compounds; Belt Dressing; Anti-seize Compounds; Calking and Glazing Compounds; Putties; Wood and Metal Fillers.
Excludes Food Preservative Compounds.

8040 Adhesives
Includes Glue; Mucilage; Sizes; Adhesive Cements.

GROUP 81
Containers, Packaging, and Packing Supplies

Note-A chest, case, box, roll, bag, or other container, when specifically designed for housing of a set, kit, outfit, or individual item (with or without attachments or spares), for its protection when not in use, or for the convenience of the user, is classified in the same class as the item or items for which designed, or in such other class as is appropriate. However, when the chest, case, box, roll, bag, or other container is primarily a shipping container, it is classified in Group 81.

8105 Bags and Sacks
Includes Shipping and Protective Envelopes; Liners for Bags and Sacks; Textile and Paper Laminated Shipping Bags; Closures for Bags and Sacks.

8110 Drums and Cans
Includes Barrels; Kegs; Shipping and Storage Pails; Collapsible Tubes; Mailing and Filing Tubes; Closures for Drums and Cans.

8115 Boxes, Cartons, and Crates
Includes Shoe Boxes; Beer Cases; Pill Boxes; Piano Cases; Engine Boxes; Bombsight Boxes.
Excludes Special boxes, packages, and containers designed primarily for shipping, storage, and handling of ammunition, nuclear ordnance, explosives, guided missiles, military chemical agents; and repairable/reusable containers specially designed for specialized equipment such as the "Shipping and Storage Container" for components of aircraft, space vehicles, automotive vehicles, ships, ground communication equipment.

8120 Commercial and Industrial Gas Cylinders

Note-This class includes empty commercial and industrial gas cylinders and their caps, valves, and valve spare parts.
Excludes Filled gas cylinders and items related to gaseous and liquefied gaseous dispensing systems, both mobile and installed. All components of installed gas dispensing systems are classified by "application" or "function" with the end equipment for which designed.

8125 Bottles and Jars

Includes Shipping Jugs and Carboys; Ampoules.

8130 Reels and Spools

8135 Packaging and Packing Bulk Materials

Includes Wrapping Paper; Moisture Vapor Barrier Paper; Excelsior; Wadding for Packing; Corrugated Paper; Baling Bands, Baling Ties; Shipping Tags; Gummed Paper Tape; Separators; Box Liners; Packaging Staples; Baling Wire; Preformed Cushioning Inserts.
Excludes Adhesives; Aluminum Foil other than for food handling and processing.

8140 Ammunition and Nuclear Ordnance Boxes, Packages and Special Containers

Note-This class includes only containers and fittings which are specifically designed for the storage, handling, and shipping of ammunition, explosives, and military chemical agents.
Includes All shipping and storage containers specially designed for guided missiles, major missile sections, missile warheads, and other guided missile components.
Excludes General Purpose Containers, Shipping and storage reusable/repairable containers specially designed for components of aircraft, space vehicles, automotive vehicles, ships, and ground communication equipment.

8145 Specialized Shipping and Storage Containers

Note-This class includes only reusable and repairable containers specially designed for shipping and storage of specialized equipment; i.e., shipping and storage containers for components of aircraft, space vehicles, automotive vehicles, ships, ground communication equipment, etc.
Includes Specially designed components (not elsewhere classifiable) peculiar to special shipping and storage containers as delimited under this class.
Excludes General purpose containers; specially designed containers for ammunition, nuclear ordnance, explosives, military chemical agents and guided missile components. Excluded from this class are items for which more specific classifications are suitable. The FSC Indexes and Structure will govern the classification of those items permitted classification in a single class only.

GROUP 83
Textiles, Leather, Furs, Apparel and Shoe Findings, Tents and Flags

8305 Textile Fabrics

Note-This class includes only textiles in bulk. Excluded from this class are items that are precut or preformed, thus limiting their usefulness to specific applications. Such items are classified in the same class as the item or items for which designed, or in such other class as is appropriate.
Includes Canvas Materials; Plastic Fabrics; Felt Materials; Netting, Plastic and Textile; Oilcloth; Textile Scrap.
Excludes Carpeting.

8310 Yarn and Thread

8315 Notions and Apparel Findings

Includes Buttons; Dressmakers' Pins; Needles; Shoulder Pads; Embroideries; Stamped Art Goods for Embroidery and Art Needlework; Hair Nets; Sewing Kits.

Excludes Yarn; Thread; General Purpose Buckles.

8320 Padding and Stuffing Materials
Includes Feathers and Downs, Processed; Spanish Moss, Processed; Cotton Wadding and Batting; Kapok.
Excludes Feathers and Downs, Unprocessed.

8325 Fur Materials
Note-This class includes only fur materials in bulk. Excluded from this class are items that are precut or preformed, thus limiting their usefulness to specific applications. Such items are classified in the same class as the item or items for which designed, or in such other class as is appropriate.
Includes Crosses; Sacs; Fur Plates; Fur Mats.

8330 Leather
Includes Garment Leather; Patent Leather; Glove Leather; Shoe Leather; Upholstery Leather; Industrial Leather.
Excludes Belting; Shoe Findings.

8335 Shoe Findings and Soling Materials
Includes Counters; Taps; Shoe Laces; Lasts and Last Sole Patterns; Ornamental Shoe Buckles and Bows.

8340 Tents and Tarpaulins
Note-Fitted covers which are specifically designed for use on or with specific individual types of equipment are excluded from this class and are to be classified in the same classes as the items for which they are designed, or in such other classes as are appropriate.
Includes Tent Pins; Tent Poles; Multiple purpose covers of woven or unwoven fabrics, not for permanent installation.

8345 Flags and Pennants
Includes Signalling Flags; Flagstaffs; Signal Shapes; Flagpoles; Flagstaff Trucks; Speed Cones; Flagstaff Belts; Semaphore Flags.

GROUP 84
Clothing, Individual Equipment, and Insignia

Note-Where applicable, clothing items which are intended for use by both men and women are classified in the appropriate ″men's″ class.

8405 Outerwear, Men's
Includes Uniforms, Military and Nonmilitary; Civilian Outerwear; Headwear; Work Clothing (Ordinary Nonsafety); Shirts; Trousers; Coats.
Excludes Items included in other classes such as Special Purpose Clothing; Helmets, Steel and Plastic; Safety Clothing; Handwear; Footwear.

8410 Outerwear, Women's
Includes Uniforms, Military and Nonmilitary; Civilian Outerwear; Headwear; Work Clothing (Ordinary Nonsafety); Shirts; Skirts; Blouses.
Excludes Items included in other classes such as Special Purpose Clothing; Helmets, Steel and Plastic; Safety Clothing; Handwear; Footwear.

8415 Clothing, Special Purpose
Note-This class includes conventional winter, summer, and intermediate flight clothing ensembles and their components. Excluded from this class are specialized antiexposure, antigravity, partial pressure, and full pressure, flight ensembles and their specialized components.
Includes Special Purpose Headwear, including Helmets, except Ballistic Protective; Safety and Protective Clothing; Athletic Clothing; Safety, Combat, Protective, and Work Gloves; Submarine Deck Exposure Clothing; Flight Clothing Components designed for use with both Specialized and Conventional Ensembles.
Excludes Sporting and Athletic Gloves; Athletic Footwear; Safety Footwear; Personal Armor; Special Hospital and Surgical Clothing. Excludes special purpose clothing wherein the primary purpose is ballistic resistant protection. This class will include common use components of

both ballistic and conventional end items.

8420 Underwear and Nightwear, Men's

8425 Underwear and Nightwear, Women's
Includes Corsets; Girdles.

8430 Footwear, Men's
Includes Rubber Footwear; Athletic Footwear; Safety Footwear; Submarine Deck Exposure Footwear.

8435 Footwear, Women's
Includes Rubber Footwear; Athletic Footwear; Safety Footwear.

8440 Hoisery, Handwear, and Clothing Accessories, Men's
Includes Handkerchiefs; Suspenders; Garters; Belts; Dress Handwear; Leggings, Nonsafety Type.

8445 Hoisery, Handwear, and Clothing Accessories, Women's
Includes Handkerchiefs; Garters; Belts; Neckerchiefs; Handbags; Dress Handwear; Leggings, Nonsafety Type.

8450 Children's and Infants' Apparel and Accessories
Includes Footwear; Outerwear; Headwear; Handwear; Underwear; Nightwear.

8455 Badges and Insignia
Note-This class includes only items worn or carried on the person.
Excludes Nonpersonal Insignia.

8460 Luggage
Includes Foot Lockers; Brief Cases; Trunks; Suitcases.
Excludes Duffel Bags; Musette Bags

8465 Individual Equipment
Includes Musette Bags; Duffel Bags; Ammunition Belts; Pistol Belts; Handcuffs; Packboards; Sleeping Bags; Knapsacks; Hikers' Packs; Sunglasses; Skis; Snowshoes; Swords with Scabbards.
Excludes Toilet Articles; Mess Gear; Fabric Utility Containers.

8470 Armor, Personal
Includes Clothing specially designed for use as personal armor.
Excludes All specialized flight clothing and accessories which may contain ballistic resistant properties as a secondary function. Excludes special purpose clothing wherein the primary function is for purposes other than ballistic protection

8475 Specialized Flight Clothing and Accessories
Includes Specialized Antiexposure, Antigravity, Partial Pressure, and Full Pressure Ensembles, and Specialized Components therefor, including Unpressurized Protective Helmets, Eye Protective Devices, and items with Sound Attenuating Features.
Excludes Conventional Winter, Summer, and Intermediate Flight Clothing Ensembles, and Components therefor; Components designed for use with both Specialized and Conventional Flight Clothing Ensembles.

GROUP 85
Toiletries

Note-Excluded from this group are medicated cosmetics and toiletries that have been determined to be drugs in accordance with the Federal Food, Drug, and Cosmetic Act. For medicated cosmetics and toiletries, see Class 6508.

8510 Perfumes, Toilet Preparations, and Powders
Includes Colognes; Cosmetics; Deodorants; Depilatories; Toilet Waters.

8520 Toilet Soap, Shaving Preparations, and Dentifrices
Includes Toothpaste; Shaving Soap.
Excludes Medicated Soaps.

8530 Personal Toiletry Articles
Includes Hair Brushes; Nail Brushes; Nail Files; Toothbrushes; Manicure and Pedicure Implements; Razors and Blades.
Excludes Dental Floss.

8540 Toiletry Paper Products
Includes Facial Tissues; Paper Toilet Seat Covers; Toilet Paper; Paper Napkins; Doilies.
Excludes Towel Dispensers; Paper Plates and Cups.

GROUP 87
Agricultural Supplies

8710 Forage and Feed
Includes Hay; Manufactured Feed; Straw; Zoological Animal Food.

8720 Fertilizers
Includes Natural and Synthetic Fertilizers; Peat Moss; Animal Manures.

8730 Seeds and Nursery Stock
Includes Cut Flowers.

GROUP 88
Live Animals

8810 Live Animals, Raised for Food

8820 Live Animals, Not Raised for Food

GROUP 89
Subsistence

Note-Subsistance items which are specifically prepared for dietetic use are classified in Class 8940. Nondietetic foods, even though they bear the same approved item names as corresponding dietetic foods, are classified in Classes other than 8940.

8905 Meat, Poultry, and Fish
Includes Game Birds; Shellfish; Sausage Casings.

8910 Dairy Foods and Eggs
Includes Ice Cream; Frozen Custards; Ice Cream Mixes; Rennet; Milk Sherbets; Ices.

8915 Fruits and Vegetables
Includes Baked Beans; Juices.

8920 Bakery and Cereal Products
Includes Flour; Prepared Flour; Prepared Cereals; Macaroni.

8925 Sugar, Confectionery, and Nuts
Includes Candy; Chewing Gum; Honey; Maple Syrup.

8930 Jams, Jellies, and Preserves

8935 Soups and Bouillons

8940 Special Dietary Foods and Food Specialty Preparations
Includes Infant Foods; Potato Chips; Prepared Pie and Cake Fillings.

8945 Food, Oils and Fats

8950 Condiments and Related Products
Includes Salad Dressings; Spices; Seasonings; Flavoring Extracts; Yeast; Olives.

8955 Coffee, Tea, and Cocoa
Includes Postum; Yerba Mate; Chicory.

8960 Beverages, Nonalcoholic
Includes Soft Drinks; Ice.

8965 Beverages, Alcoholic
Includes Beer; Whisky; Wine; Liqueur.
Excludes Sacramental Wine and Medicinal grade Brandy, Whisky, and Wine.

8970 Composite Food Packages
Includes Ration Packs and Emergency Rations; Care Packages.

8975 Tobacco Products
Includes Snuff; Cigarettes; Cigars.

GROUP 91
Fuels, Lubricants, Oils, and Waxes

9110 Fuels, Solid
Includes Ration Heating Tablets; Cordwood; Charcoal; Briquettes; Coke.
Excludes Peat.

9130 Liquid Propellants and Fuels, Petroleum Base

Note-This class includes liquid propellants with more than 50 percent or higher petroleum content.

Includes All Aviation Gasoline; JP-1, 3, 4, and 5 Jet Fuel; Combat Vehicle and Automotive Gasoline (all types and grades); Liquid Propellants, Bulk; Liquid Propellants, predetermined to specific quantity and quality, packaged in reusable containers.

Excludes Solid Propellants; Liquid Propellants, encased in consumable containers, for insertion into missile propulsion systems as integral parts.

9135 Liquid Propellant Fuels and Oxidizers, Chemical Base

Note-This class includes liquid propellants with more than 50 percent or higher chemical content.

Includes Liquid chemicals designed exclusively for use as propellant fuels and oxidizers; Liquid Propellants, Bulk; Liquid Propellants, predetermined to specific quantity and quality, packaged in reusable containers.

Excludes Multiple-use chemicals, such as Nitrogen, Technical; Ammonia, Technical; Furfuryl Alcohol, Technical; Aniline, Technical; Solid Propellants; Liquid Propellants, encased in consumable containers, for insertion into missile propulsion systems as integral parts.

9140 Fuel Oils

Includes Light Burner Fuels; Diesel Fuels; Kerosine; Military Specification Type Residuals; Special and Heavy Grade Turbine Vessel Propulsion Fuels; Federal Specification Heavy Burner Fuels; Bunker "C" Commercial Grade Fuel; Heavy Fuel and other Black (Boiler Type) Fuels; Illuminating Oils.

9150 Oils and Greases: Cutting, Lubricating, and Hydraulic

Includes Petrolatum, except USP.

Excludes Rust Preventive Compounds; Antiseizing Compounds; Petrolatum, USP.

9160 Miscellaneous Waxes, Oils, and Fats

Includes Animal, Vegetable, and Petroleum Waxes; Wool Grease (Lanolin); Tallow; Marine Oils; Coconut Oil; Soap Stock; Essential Oils, except USP or NF grades.

Excludes Edible Fats and Oils; Household and Automobile Waxes.

GROUP 93
Nonmetallic Fabricated Materials

9310 Paper and Paperboard

Includes Book Paper Stock; Newsprint; Paperboard; Bulk Paper Materials.

Excludes Corrugated Paper; Wrapping Paper; Building Board; Insulating Board; Stationery; Construction Paper; Paper Towels; Facial Tissues; Blank Books; Containers; Shipping and Identification Tags.

9320 Rubber Fabricated Materials

Includes Natural and Synthetic Rubber Fabricated Materials, such as Rubber Sheets, Structural Rubber Shapes, Strips.

9330 Plastics Fabricated Materials

Includes Cellulose Acetate and other plastics; Bars, Rods, Sheets, and Strips.

Excludes Cable, Fiber Optic.

9340 Glass Fabricated Materials

Includes Glass Rods, Bars, and Tubing; Optical Glass Blanks; Structural and Building Glass; Glass Blocks.

Excludes Insulators (FSC 5970); Ophthalmic Glass Blanks (FSC 6540); and Cable, Fiber Optics (FSCs 6015 and 6615).

9350 Refractories and Fire Surfacing Materials

9390 Miscellaneous Fabricated Nonmetallic Materials

Includes Cork Fabricated Basic Materials; Asbestos Fabricated Materials; Manufactured Mica; Minerals for scientific and technical use (cut but not mounted); Pottery Supplies; Catgut and Wormgut;

Vegetable Brush Fibers; Bagasse.

GROUP 94
Nonmetallic Crude Materials

9410 Crude Grades of Plant Materials
Includes Flavoring Materials; Crude Drugs of Plant-Origin; Crude Materials for Perfume; Tobacco, Unmanufactured.

9420 Fibers: Vegetable, Animal, and Synthetic
Includes Cotton, Wool, Silk, Horsehair, Rayon, and Nylon Fibers.

9430 Miscellaneous Crude Animal Products, Inedible
Includes Feathers and Downs, Unprocessed; Ivory; Bristles; Hides and Fur Skins, Crude.

9440 Miscellaneous Crude Agricultural and Forestry Products
Includes Cereal Grains; Sugar Crops; Crude Rubber.

9450 Nonmetallic Scrap, Except Textile

GROUP 95
Metal Bars, Sheets, and Shapes

9505 Wire, Nonelectrical
Note- This class contains bulk material only. Specially designed items should be placed in a more appropriate class. Wire is a thin, flexible, continuous length of metal, usually of circular cross-section.
Includes Bulk Nonelectrical Wire
Excludes Wire having electrical resistivity or conductivity rating (FSC 6145).

9510 Bars and Rods
Note This class contains bulk material only. Specially designed items should be placed in a more appropriae class. a. Bars are elongated pieces of metal of simple uniform cross-sections usually rectangular, circular, or hexagonal produced by forging or hot-rolling, also known as barstock. b. Rods are thin round metal bar, differentiated by dimensional parameters, listed in the item name definition.
Includes Metal Bars and Rods
Excludes Muck Bar (FSC 9640); Rods for Wire (FSC 9640); Sheet Bar (FSC 9640); Threaded Rods (FSC 5306); Grooved Rod (FSC 5340).

9515 Plate, Sheet, Strip, Foil, and Leaf
Note-This class contains bulk material only. Specially designed items should be placed in a more appropriate class. The items covered by this class are all similar in that they are flat, generally rolled metal, the difference is covered by dsimensional parameters in the item name definition.
Includes Armor Plate; Black Plate; Floor Plate; Leaf; Perforated Sheet and Strip; Shim Stock.
Excludes Bale Ties (FSC 8135); Baling Bands (FSC 8135); Mending Plates (FSC 5340); Mounting Plates (FSC 5340); T Plates (FSC 5340).

9520 Structural Shapes
Note-This class contains bulk material only. Specially designed items should be placed in a more appropriate class. This class includes items usually used in building, bridge and similar construction, such as, I beams, angles, and the like.
Includes Bar Size Shapes (under 3 inches); Metal Piles and Piling; Angles; Channels; Tees; Zees.
Excludes Plate, Sheet and Strip Materials (FSC 9515).

9525 Wire, Nonelectrical, Nonferrous Base Metal
Excludes Wire having electrical resistivity or conductivity rating.

9530 Bars and Rods, Nonferrous Base Metal

9535 Plate, Sheet, Strip, and Foil; Nonferrous Base Metal
Includes Leaf; Perforated Sheet and Strips.

9540 Structural Shapes, Nonferrous Base Metal
Includes Angles; Channels; Tees; Zees.

9545 Plate, Sheet, Strip, Foil, and Wire: Precious Metal
Includes Bars; Leaf; Ribbon; Rods; Tubing.
Excludes Precious Metals for dental use.

GROUP 96
Ores, Minerals, and Their Primary Products

9610 Ores
Note-Only bulk material will be identified in this class. Ores are a naturally occurring material from which economically valuable minerals can be obtained.
Includes Bauxite; Ferrous Ores; Lead Ores; Precious Metal Ores; Radioactive Metal Ores; Zinc Ores.

9620 Minerals, Natural and Synthetic
Note-Only bulk material will be identified in this class. Minerals are naturally occurring substances with a characteristic chemical composition that can be expressed by a formula.
Includes Clays and other Earths; Mica; Asbestos; Crude Petroleum; Graphite.
Excludes Gravel (FSC 5610); Sand (FSC 5610); Abrasives (FSC 5350); Refractory Clays (FSC 9350).

9630 Additive Metal Materials
Note-Only bulk material will be identified in this class. Additive metal materials are those which are added to metals to improve their characteristics as required (e.g., lead added to steel to improve the machinability).
Includes Alloying Additives (Aluminum, Antimony, Copper, and Others).
Excludes Fuel Inhibiting Additives (FSC 6850).

9640 Iron and Steel Primary and Semifinished Products
Note-Only bulk material will be identified in this class. a. Primary products are raw unfinished ingots, pigs, that require refinement to be usable. b. Semi-finished items are primary products that have been refined to a state that requires further manufacturing processes to its final, usable state.
Includes Ingots; Pigs; Billets; Blooms; Muck Bar; Rods for Wire; Sheet Bar; Skelp; Tube Rounds.

9650 Nonferrous Base Metal Refinery and Intermediate Forms
Note-Only Bulk material will be identified in this class. a. Refinery Forms are raw unfinished ingots, pigs, that require refinement to be usable. b. Intermediate forms are primary products that have been refined to a state that requires further manufacturing processes to its final, usable state.
Includes Ingots; Slabs.

9660 Precious Metals Primary Forms
Note-Only bulk material will be identified in this class. Primary Forms are raw unfinished ingots, pigs, that require refinement to be usable and are made of precious metals.
Includes Bullion; Ingot.

9670 Iron and Steel Scrap

9680 Nonferrous Scrap

GROUP 99
Miscellaneous

9905 Signs, Advertising Displays, and Identification Plates
Includes Electric Signs; Sign Boards; Display Stands; Mannequins and other display forms; Printed Signs; General Purpose Identification Tags and Blanks, Nonpersonal; Plates and Tags for specific applications.

9910 Jewelry
Includes Jewelers' Findings; Precious Stones, Cut; Costume Jewelry; Natural Gems and Ornamental Stones, Cut.
Excludes Watches; Clocks; Tableware; Scientific Instruments; Toilet Articles; Smokers' Articles; Industrial Diamonds.

9915 Collectors' and/or Historical Items
Includes Antiques; Artifacts; Coins; Stamps; Rare Books; Works of Art, Collectors and/or Historical Gems; Jewelry, and Cut Precious Stones; Natural History Items.

9920 Smokers' Articles and Matches
Includes Cigarette Lighters; Lighter Fluid; Pipe Reamers; Ash Trays; Tobacco Humidors; Packaged Cigarette Paper.
Excludes Ash receivers and lighters specifically designed for installation in or on equipment.

9925 Ecclesiastical Equipment, Furnishings, and Supplies
Includes Vestments; Altars; Communion Sets; Ecclesiastical Candelabra; Chalices; Patens; Altar Cloths; Ecclesiastical Statuary; Sacramental Wine.

9930 Memorials; Cemeterial and Mortuary Equipment and Supplies
Includes Grave Markers; Burial Vaults; Burial Urns; Caskets; Burial Boxes; Morticians' Supplies; Monuments; Gasket Shipping Cases.
Excludes Hearses; Mortuary Refrigerators.

9999 Miscellaneous Items
Includes only those items which cannot conceivably be classified in any existing classes

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