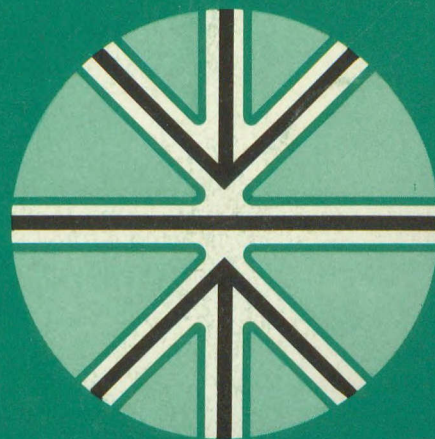


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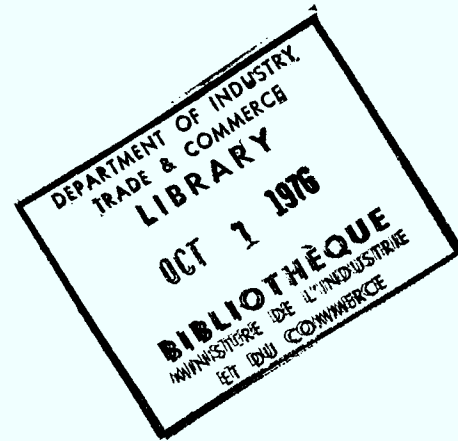
PRODUCTION SHARING DUTY-FREE PRODUCTS

**CANADA - UNITED STATES
DEFENCE PRODUCTION
SHARING PROGRAM**



*Canada. Dept. of Industry Trade and Commerce.
Defence Programmes Branch. U.S. Division*

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PREFACE

This booklet, which complements two previously published volumes, the "Production Sharing Guidebook" and the "Defence Export Shippers' Guide", should be read in conjunction with those handbooks in order to obtain an understanding of the Canada-United States Defence Production Sharing Program. The Guidebook discusses general matters affecting the sale of Canadian defence goods to the United States, and the Shippers' Guide is devoted to procedures required for the shipment of defence supplies from Canadian suppliers to U.S. customers. This publication explains the United States Federal Supply Classification system and its relation to the duty-free eligibility of Canadian defence products.

Within the Canadian government, the Defence Programs Branch (DPB) of the Department of Industry, Trade and Commerce is responsible for administering the Defence Production Sharing Program in Canada. Further information, if required, on the duty-free eligibility of your products is available from:

Chief, U.S. Division
Defence Programs Branch
Office of International Special Projects
Department of Industry, Trade & Commerce
112 Kent Street
Ottawa, Ontario K1A 0H5
Telephone: 613:995-7386

INTRODUCTION

A. The United States Federal Supply Classification.

The Federal Supply Classification (FSC) is a comprehensive system developed by the United States Department of Defense for the detailed classification and identification of all inventory items in the military supply systems.

This same FSC is used to identify items from Canada which are eligible for duty-free entry when procured by United States military agencies under the terms of the Canada-United States Defence Production Sharing Program.

The basic element of the Federal Supply Classification is a four-digit number, which specifies the Federal Supply Class. Each Class consists of items which are physically or functionally similar, are frequently requisitioned or issued together, or are otherwise related. The first two digits of each Class number identify the major Federal Supply Group within which the class of items falls. For example, Class 2520 identifies the class of "Vehicular Power Transmission Components" within Group 25, "Vehicular Equipment Components". At present there are 77 Groups sub-divided into 603 Classes. Gaps are deliberately inserted in the numerical sequence of Groups and Classes to permit inclusion of new types of items arising from technological change.

The FSC code is incorporated into the United States national supply identification system. Each supply item is identified by a U.S. Federal stock number (FSN) consisting of the four-digit FSC code plus a seven-digit Federal item identification number. The FSC and the supply identification system have been adopted by all NATO countries, including Canada, for their national defence supply management systems. Thus Canadian companies working for the Department of National Defence are already familiar with the FSC and its applications.

B. Duty-Free Entry Lists

In accordance with the United States Armed Services Procurement Regulation (ASPR), the Military Departments and the Defense Supply Agency (see paragraph 2.1.1 of the Production Sharing Guidebook) have established individual lists of Canadian supplies, known as "listed" items. These lists identify, by Federal Supply Group or Class, those items from Canada which are accorded duty-free entry when bought as contract end items on U.S. military prime contracts place in Canada. The ASPR provides also that any Canadian subcontract item or material, irrespective of its Federal Supply Class, is accorded duty-free entry if it is to be incorporated into a U.S.-manufactured end item that is on the appropriate list of duty-free items. Beyond this, the lists have additional significances at the prime contract and subcontract levels as detailed below.

1. Prime Contracts

The lists of duty-free Groups and Classes are used in the assessment of Canadian competitive tenders submitted to United States military procurement agencies. Paragraph 6-103.5 of the ASPR states that Canadian bids for "listed" items are evaluated as if they are domestic bids. Canadian bids for items not on the U.S. Military Departmental list must have the applicable United States Customs duty added to the price "for bid evaluation purposes". This must be done even though a duty-free certificate might eventually be issued for a contract awarded to a Canadian bidder.

Although the lists maintained by the three Military Departments and the Defense Supply Agency are very similar, they are not identical. They should be consulted carefully when determining the status for duty of any particular procurement.

2. Subcontracts

Although the great majority of Canadian subcontracts received from United

States defence contractors are eligible for duty-free entry, a subcontract shipment cannot enter the United States duty-free unless all the documentation is correct, at both the prime and subcontract levels. This topic is the subject of the "Defence Export Shippers' Guide".

The matter of the Military Departmental lists arises in only one set of circumstances when considering subcontracts. The circumstances are as follows:

- a) The prime contract is for an end item not "listed" by the purchasing Military Department, but
- b) The Canadian subcontract supplies are so listed.

According to ASPR 6-605.3 the Canadian shipments can have the benefit of the "Canadian Supplies — Duty-Free Entry" clause, suitably modified, if the prime contract was awarded after negotiation (RFP, RFQ). If the prime contract was awarded on the basis of competition (IFB), duty-free entry would be available for the Canadian goods on a different basis, as outlined in paragraph 6.3.3 of the "Production Sharing Guidebook".

Where neither the Canadian item nor the U.S. end product is listed for duty-free entry, the discretionary duty-free provisions of ASPR paragraph 6-603 can be used, but the usual provisions of ASPR 6-605 for Canadian supplies cannot be invoked for the Canadian subcontract.

FEDERAL SUPPLY CLASSIFICATION

INDEX

Note: These first two pages contain a complete index of all FSC Groups. Those groups marked with an asterisk () have been made eligible in whole or in part for duty-free entry by one or more U.S. Services as referred to earlier. Details of these exceptions appear on the following pages.*

Group

- * 10 Weapons
- * 11 Nuclear Ordnance
- * 12 Fire Control Equipment
- * 13 Ammunition and Explosives
- * 14 Guided Missiles
- * 15 Aircraft; and Airframe Structural Components
- * 16 Aircraft Components and Accessories
- * 17 Aircraft Launching, Landing, and Ground Handling Equipment
- 18 Space Vehicles
- * 19 Ships, Small Craft, Pontoons, and Floating Docks
- * 20 Ship and Marine Equipment
- 21 Unassigned
- * 22 Railway Equipment
- * 23 Ground Effect Vehicles, Motor Vehicles, Trailers and Cycles
- * 24 Tractors
- * 25 Vehicular Equipment Components
- * 26 Tires and Tubes
- 27 Unassigned
- * 28 Engines, Turbines, and Components
- * 29 Engine Accessories
- * 30 Mechanical Power Transmission Equipment
- * 31 Bearings
- 32 Woodworking Machinery and Equipment
- 33 Deleted
- * 34 Metalworking Machinery
- * 35 Service and Trade Equipment
- * 36 Special Industry Machinery
- 37 Agricultural Machinery and Equipment
- * 38 Construction, Mining, Excavation, and Highway Maintenance Equipment
- * 39 Materials Handling Equipment
- * 40 Rope, Cable, Chain, and Fittings
- * 41 Refrigeration and Air Conditioning Equipment
- * 42 Fire Fighting, Rescue, and Safety Equipment
- * 43 Pumps and Compressors
- * 44 Furnace, Steam Plant, and Drying Equipment; and Nuclear Reactors
- * 45 Plumbing, Heating, and Sanitation Equipment
- * 46 Water Purification and Sewage Treatment Equipment
- * 47 Pipe, Tubing, Hose, and Fittings
- * 48 Valves
- * 49 Maintenance and Repair Shop Equipment
- 50 Unassigned
- * 51 Hand Tools
- * 52 Measuring Tools
- * 53 Hardware and Abrasives
- * 54 Prefabricated Structures and Scaffolding
- * 55 Lumber, Millwork, Plywood, and Veneer

- * 56 Construction and Building Materials
- 57 Unassigned
- * 58 Communication, Detection, and Coherent Radiation Equipment
- * 59 Electrical and Electronic Equipment Components
- 60 Unassigned
- * 61 Electric Wire, and Power and Distribution Equipment
- * 62 Lighting Fixtures and Lamps
- * 63 Alarm and Signal Systems
- 64 Unassigned
- * 65 Medical, Dental, and Veterinary Equipment and Supplies
- * 66 Instruments and Laboratory Equipment
- * 67 Photographic Equipment
- * 68 Chemicals and Chemical Products
- * 69 Training Aids and Devices
- * 70 General Purpose Automatic Data Processing Equipment, Software, Supplies and Support Equipment
- 71 Furniture
- 72 Household and Commercial Furnishings and Appliances
- 73 Food Preparation and Serving Equipment
- * 74 Office Machines, Visible Record Equipment, and Data Processing Equipment
- * 75 Office Supplies and Devices
- * 76 Books, Maps, and Other Publications
- 77 Musical Instruments, Phonographs, and Home-Type Radios
- 78 Recreational and Athletic Equipment
- 79 Cleaning Equipment and Supplies
- * 80 Brushes, Paints, Sealers, and Adhesives
- * 81 Containers, Packaging, and Packing Supplies
- 82 Unassigned
- * 83 Textiles, Leather, Furs, Apparel and Shoe Findings, Tents and Flags
- * 84 Clothing, Individual Equipment, and Insignia
- 85 Toiletries
- 86 Unassigned
- 87 Agricultural Supplies
- 88 Live Animals
- 89 Subsistence
- 90 Unassigned
- 91 Fuels, Lubricants, Oils, and Waxes
- 92 Unassigned
- * 93 Nonmetallic Fabricated Materials
- 94 Nonmetallic Crude Materials
- * 95 Metal Bars, Sheets, and Shapes
- * 96 Ores, Minerals, and Their Primary Products
- 97 Unassigned
- 98 Unassigned
- 99 Miscellaneous

SUPPLIES OF CANADIAN ORIGIN ELIGIBLE FOR DUTY-FREE ENTRY

Combined Army (A), Navy (N), Air Force (AF) and
Defense Supply Agency (D) listing

GROUP 10

Weapons

Federal Supply
Classification
Number (FSC)

Note: This Group includes both offensive and defensive weapons. Excluded from this Group are fire control and night vision devices classifiable in Groups 12 or 58.

Procuring Service
or Agency allowing
Duty Free Entry

1005	Guns, through 30 mm <u>Includes</u> Machine Guns; Bayonets; Brushes, Machine Gun and Pistol. <u>Excludes</u> Turrets, Aircraft.	A, N
1010	Guns over 30 mm up to 75 mm <u>Includes</u> Breech Mechanisms; Mounts	A, N
1015	Guns, 75 mm through 125 mm <u>Includes</u> Breech Mechanisms; Mounts; Rammers.	A, N
1020	Guns, over 125 mm through 150 mm <u>Includes</u> Breech Mechanisms; Power Drives; Gun Shields.	A, N
1025	Guns, over 150 mm through 200 mm <u>Includes</u> Firing Platforms; Mounts; Gun Shields.	A, N
1030	Guns, over 200 mm through 300 mm <u>Includes</u> Gun Yokes; Rammers; Reflectors.	A, N
1035	Guns, over 300 mm <u>Includes</u> Breech Mechanisms; Training Gears; Power Drives.	A, N
1040	Chemical Weapons and Equipment <u>Includes</u> Flame Throwers; Smoke Generators.	A, N
1045	Launchers, Torpedo and Depth Charge <u>Includes</u> Depth Charge Tracks; Torpedo Tubes.	A, N
1055	Launchers, Rocket and Pyrotechnic <u>Includes</u> Airborne Rocket Launchers adaptable to guided missile use. <u>Excludes</u> Specifically designed Airborne Guided Missile Launchers; Jettisonable Rocket Launchers; Launcher Fairings designed for specific airframes.	A, N, AF
1070	Nets and Booms. Ordnance <i>Note: This class includes Nets and Booms for harbor defence only.</i>	A, N
1075	Degaussing and Mine Sweeping Equipment.	A, N
1080	Camouflage and Deception Equipment. <u>Includes</u> Dummy Artillery, Aircraft and Vehicles; Garnished Nets.	A, N, AF

1090	Assemblies Interchangeable Between Weapons in Two or More Classes <u>Includes</u> Components and Accessories used on or with weapons falling in two or more classes of Group 10.	A, N
1095	Miscellaneous Weapons <u>Includes</u> Line Throwing Guns; Catapult Guns; Saluting Guns; Signal Guns; Flare Guns; Barrage Balloons; Accessories, not elsewhere classifiable, for Weapons in this group; Expendable Bomb Dispensers.	A, N, AF

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 mockups, 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.

1135	Fuzing and Firing Devices, Nuclear Ordnance <u>Includes</u> 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.	A, N, AF
1190	Specialized Test and Handling Equipment, Nuclear Ordnance <u>Includes</u> 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. <u>Excludes</u> 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.	A, N, AF

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	A, N
1220	Fire Control Computing Sights and Devices	A, N
1230	Fire Control Systems, Complete. <i>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.</i>	A, N, AF
1240	Optical Sighting and Ranging Equipment <u>Includes</u> Range and Height Finders; Telescopic Sights; Optical Instruments Integrated with Fire Control Equipment.	A, N
1250	Fire Control Stabilizing Mechanisms	A, N
1260	Fire Control Designating and Indicating Equipment <u>Includes</u> Turret, Gun, Torpedo Mount, and Searchlight Indicating Equipment; Target Designating Equipment; Synchro Systems.	A, N
1265	Fire Control Transmitting and Receiving Equipment, except Airborne. <u>Includes</u> Fire Control Transmitters, Transmitter-Receivers, Receivers, Receiver-Regulators. <u>Excludes</u> Fire Control Transmitting and Receiving Equipment, Specially Designed for use on or with Fire Control Radar Equipment.	A, N
1270	Aircraft Gunnery Fire Control Components <u>Includes</u> Turrets, Aircraft; Computers, specifically designed; Complete Gyro Mechanisms. <u>Excludes</u> Gun Chargers; Ammunition Boxes; Gun Heaters; Field and Link Chutes; Ammunition Boosters; Gyro Components; Complete Fire Control Systems.	A, N, AF
1280	Aircraft Bombing Fire Control Components <u>Includes</u> Computers, specifically designed; Complete Gyro Mechanisms; Optical Devices for Bombing Fire Control. <u>Excludes</u> Gyro Components.	A, N, AF
1285	Fire Control Radar Equipment, except Airborne <u>Includes</u> Radar Sets Assemblies, Subassemblies, and Components Specially Designed for use on or with Fire Control Equipment.	A, N
1287	Fire Control Sonar Equipment <i>Note: This class includes airborne, shipborne, and submarine borne sonar sets, assemblies, subassemblies, and components designed specifically for use with underwater fire control equipment.</i>	A, N
1290	Miscellaneous Fire Control Equipment <u>Includes</u> 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.	A, N, AF

GROUP 13

Ammunition and Explosives

Note: Excluded from this group are items specially designed for nuclear ordnance applications.

1305	Ammunition, through 30 mm <u>Includes</u> components.	A, N
1310	Ammunition, over 30 mm up to 75 mm <u>Includes</u> Components, except Fuzes and Primers; Chemical Warfare Cartridges. <u>Excludes</u> Fuzes and Primers.	A, N
1315	Ammunition, 75 mm through 125 mm <u>Includes</u> Components, except Fuzes and Primers; Pyrotechnic Cartridges and Projectiles; Chemical Warfare Cartridges and Projectiles. <u>Excludes</u> Fuzes and Primers.	A, N
1320	Ammunition, over 125 mm <u>Includes</u> Components, except Fuzes and Primers; Chemical Warfare Projectiles. <u>Excludes</u> Fuzes and Primers.	A, N
1325	Bombs <u>Includes</u> Components; Photoflash Bombs; Chemical Warfare Bombs; Bomb Clusters.	A, N
1330	Grenades <u>Includes</u> Components; Hand and Rifle Grenades; Smoke Grenades. <u>Excludes</u> Firing Devices (Launchers).	A, N
1336	Guided Missile Warheads and Explosive Components <u>Includes</u> Warheads Containing Military Chemical Agents; Exercise Heads, Guided Missile. <u>Excludes</u> 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.	A, N, AF
1337	Guided Missile and Space Vehicle Explosive Propulsion Units, Solid Fuel; and Components <u>Includes</u> 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. <u>Excludes</u> 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.	A, N

1338	<p>Guided Missile and Space Vehicle Inert Propulsion Units, Solid Fuel; and Components</p> <p><u>Includes</u> 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.</p> <p><u>Excludes</u> 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.</p>	A, N
1340	<p>Rockets, Rocket Ammunition and Rocket Components</p> <p><u>Includes</u> 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.</p> <p><u>Excludes</u> Nuclear rockets, Nuclear warheads; all other warheads for use on other than rockets; and rockets with built-in guiding devices.</p>	A, N, AF
1345	<p>Land Mines</p> <p><u>Includes</u> Components; Antipersonnel Mines; Anti-Tank Mines; Fuzes.</p>	A, N
1350	<p>Underwater Mine Inert Components</p> <p><u>Includes</u> Parachute Packs; Inert Mine Cases; Booster Cans; Clock Delays; Clock Starters; Search Coils; Extenders.</p>	A, N
1351	<p>Underwater Mine Explosive Components</p> <p><u>Includes</u> Loaded Cases; Boosters, Detonators.</p>	A, N
1355	Torpedo Inert Components	A, N
1356	<p>Torpedo Explosive Components</p> <p><u>Includes</u> Warheads; Boosters; Detonators.</p>	
1360	<p>Depth Charge Inert Components</p> <p><u>Includes</u> Inert Firing Mechanisms; Pistols without Detonators; Extenders.</p>	A, N
1361	<p>Depth Charge Explosive Components</p> <p><u>Includes</u> Cases; Boosters; Detonators.</p>	A, N
1365	<p>Military Chemical Agents</p> <p><u>Includes</u> War Gases; Screening Smokes; Incendiary and thickening Agents; Signaling Smokes.</p> <p><u>Excludes</u> Ammunition containing Military Chemical Agents.</p>	A, N
1370	<p>Pyrotechnics</p> <p><u>Includes</u> Flares; Signals; Fireworks; Pistol Rocket Signals.</p> <p><u>Excludes</u> Pyrotechnic Cartridges and Projectiles; Photoflash Bombs; Pyrotechnic Rockets.</p>	A, N
1375	<p>Demolition Materials</p> <p><u>Includes</u> items for construction, quarrying and demolition work such as Dynamite and other explosives packaged 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.</p>	A, N, AF

	<p><u>Excludes</u> 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.</p>	
1376	<p>Bulk Explosives</p> <p><u>Includes</u> 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.</p> <p><u>Excludes</u> 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; similar items, as shown in the indexes to the FSC.</p>	A, N
1377	<p>Cartridge and Propellant Actuated Devices and Components</p> <p><i>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.</i></p> <p><u>Includes</u> 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, propellants 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.</p> <p><u>Excludes</u> 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.</p>	A, N
1380	<p>Military Biological Agents</p> <p><i>Note: This class includes all forms of ammunition and warheads containing Military Biological Agents.</i></p>	A, N
1385	<p>Explosive Ordnance Disposal Tools, surface</p> <p><u>Includes</u> Only specialized tools designed exclusively for use on influenced weapons.</p> <p><u>Excludes</u> Nonspecialized or common tools not designed exclusively for use on influenced weapons.</p>	A, N

1386	<p>Explosive Ordnance Disposal Tools, Underwater</p> <p><u>Includes</u> Only specialized tools designed exclusively for use on influenced weapons.</p> <p><u>Excludes</u> Nonspecialized or common tools not designed exclusively for use on influenced weapons.</p>	A, N
1390	<p>Fuzes and Primers</p> <p><i>Note: This class includes only fuzes and primers for use in ammunition classified in Classes 1310, 1315, and 1320.</i></p> <p><u>Excludes</u> Fuzes and Primers for ammunition not classified in Classes 1310, 1315, and 1320.</p>	A, N
1395	<p>Miscellaneous Ammunition</p> <p><u>Includes</u> Ammunition Shapes, such as Blanks, Disks, Slugs, Cups, and Rotating Bands (Shell Bands).</p>	A, N
1398	<p>Specialized Ammunition Handling and Servicing Equipment</p> <p><u>Includes</u> Handling and Servicing equipment specially designed for use on or with rockets and conventional ammunition.</p> <p><u>Excludes</u> 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.</p>	A, N

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 re-entry vehicles which are designed or constructed for exclusive use with or for housing of nuclear warheads and/or warhead sections. Also excluded are space vehicle nose cones and space capsules specifically designed to carry loads peculiar to space research and space travel.

1410	<p>Guided Missiles</p> <p><i>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.</i></p> <p><u>Includes</u> complete Drones, initially designed as missiles, but converted to drone use.</p>	A, N, AF
1420	<p>Guided Missile Components</p> <p><u>Includes</u> 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.</p> <p><u>Excludes</u> Electronic Remote Guidance Equipment used to guide missiles; Solid and Liquid Propellant Units; Components of Gyro Mechanisms.</p>	A, N, AF

1425	<p>Guided Missile Systems, Complete</p> <p><i>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.</i></p> <p><u>Excludes</u> Guided Missile Subsystems.</p>	N, AF
1427	<p>Guided Missile Subsystems</p> <p><i>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.</i></p> <p><u>Excluded</u> from this class are individual end items, assemblies, sub-assemblies, attachments, accessories or parts classified in other classes of this group, not combined as single items of supply.</p> <p><u>Excludes</u> Complete Guided Missile Systems.</p>	N, AF
1430	<p>Guided Missile Remote Control Systems</p> <p><i>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.</i></p> <p><u>Includes</u> Specially Designed Components of Guided Missile Remote Control Systems.</p> <p><u>Excludes</u> Guided Missile Internal (Built-in) Control Systems; Components used in both guided missiles and other than guided missiles (including fire control components).</p>	A, N, AF
1440	<p>Launchers, Guided Missile</p> <p><u>Includes</u> Airborne and Nonairborne Guided Missile Launchers.</p> <p><u>Excludes</u> Aircraft Launchers; Rocket Launchers.</p>	A, N, AF
1450	<p>Guided Missile Handling and Servicing Equipment</p> <p><u>Includes</u> 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.</p> <p><u>Excludes</u> Guided Missile Launchers; Aircraft Handling and Servicing Equipment.</p>	A, N, AF
GROUP 15		
Aircraft and Airframe Structural Components		
1510	<p>Aircraft, Fixed Wing</p> <p><i>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.</i></p>	A, N, AF
1520	<p>Aircraft, Rotary Wing</p> <p><i>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.</i></p> <p><u>Includes</u> Helicopters.</p>	A, N, AF

1540	<p>Gliders</p> <p><i>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.</i></p> <p><u>Includes</u> Motorized Gliders</p>	A, N, AF
1550	<p>Drones</p> <p><i>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.</i></p> <p><u>Includes</u> Drones specifically designed for such uses as targets, training, surveillance, missile evaluation, and photographic reconnaissance.</p> <p><u>Excludes</u> Piloted aircraft and guided missiles converted to drone use.</p>	A, N, AF
1560	<p>Airframe Structural Components</p> <p><i>Note: This class includes miscellaneous fabricated system parts when of special purpose nature, such as brackets, fair-leads, lines, etc., and all other parts peculiar to an airframe when not specifically classified elsewhere.</i></p> <p><u>Includes</u> Fuel Tanks, permanently installed; Exhaust Systems; Helicopter Drive Mechanisms; Aircraft Auxiliary Fuel Tanks; Pylons, Aircraft.</p> <p><u>Excludes</u> Fitted Covers; Helicopter Rotor Brake System Components.</p>	A, N, AF
<p>GROUP 16</p> <p>Aircraft Components and Accessories</p>		
1610	<p>Aircraft Propellers</p> <p><u>Includes</u> Propeller Governors; Propeller Spinners; Propeller Synchronizers; Propeller Hubs; Propeller Blades and Cuffs; Propeller Power Units; Propeller Integral Oil Control.</p>	A, N, AF
1615	<p>Helicopter Rotor Blades, Drive Mechanisms and Components</p> <p><i>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.</i></p> <p><u>Includes</u> 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; Yokes; Blades; Blade Sets; Clutches and Transmissions.</p> <p><u>Excludes</u> Propellers; Rotor Brake System Components; Rotor Blade Hydraulic Folding System Components; Hydraulic Servo System Components.</p>	A, N, AF
1620	<p>Aircraft Landing Gear Components</p> <p><u>Includes</u> Shock Struts and Components; Installation Elements, such as Torsion Bars, Vibration Links, Drag Struts; Landing Gear Trunnions, Axles and Shimmy Dampeners; Specially designed hydraulic power steering system components.</p> <p><u>Excludes</u> Mounting Braces and Mounting Plates permanently installed on aircraft; Landing Wheels, Skis, and Floats; Wheel Brakes and Wheel Brake Cylinders.</p>	A, N, AF

1630	<p>Aircraft Wheel and Brake Systems</p> <p><u>Includes</u> 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.</p> <p><u>Excludes</u> Landing Gear Axles.</p>	A, N, AF
1650	<p>Aircraft Hydraulic, Vacuum, and De-icing System Components</p> <p><i>Note: This class includes only those components specifically designed for aircraft use.</i></p> <p><u>Includes</u> 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.</p> <p><u>Excludes</u> Jet Engine Hydraulic Components; Valves specifically designed for air conditioning, heating, ventilating, cabin pressurizing, and thermal de-icing; Valves specifically designed for use with Aircraft Engines, Guided Missiles, and Guided Missile Engines; Landing Gear, Wheel and Brake System Components; Oxygen Breathing System Component; In-flight Refueling System Hydraulic components; Specially designed hydraulic power steering system components.</p>	A, N, AF
1660	<p>Aircraft Air Conditioning, Heating and Pressurizing Equipment</p> <p><i>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.</i></p> <p><u>Includes</u> Cabin Supercharging Equipment; Canisters; Cylinders; Masks; Breathing Tubes; Fixed Oxygen Systems; Specially Designed Aircraft Valves; Cabin Pressure Regulators; Heat Exchangers; Air Expansion Turbines; Aircraft Heaters; Ventilating System Components; Thermal De-icing Equipment; Cabin and Compartment Pressurizing Equipment; Air Diffusers; Cabin Pressure Selectors; Liquid Oxygen Converters.</p> <p><u>Excludes</u> Oxygen Pressure Signals and Warning Devices; Ducts and 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.</p>	A, N, AF
1670	<p>Parachutes; Aerial Pick Up, Delivery, Recovery Systems; and Cargo Tie Down Equipment</p> <p><i>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).</i></p> <p><u>Excludes</u> Fitting Assemblies built into the aircraft structure.</p>	A, N, AF
1680	<p>Miscellaneous Aircraft Accessories and Components</p> <p><u>Includes</u> Control Assemblies, Push-Pull; Mechanical Wing, Trim Tab, and Aileron Actuators; Ventilators; Message Tubes; Relief Tubes; Map Holders; Aerial Glider Towing Accessories Attached to Aircraft; Safety and Shoulder Harness Belts; Litter Attaching Supports; Hydraulic and Electric Windshield Wipers; Aircraft Fire Extinguishing System Assemblies and Components; Generators, Inert Gas, Aircraft; Aircraft Furniture; Aircraft Mounted Winches and Hoists; In-flight Refueling System Components, including fuel and hydraulic components; Curtains, Door</p>	A, N, AF

and Compartment; Cable Tension Regulators; Sun Visors; Rear-view Mirrors; Mechanical Transmissions and Constant Speed Drives specially designed for aircraft.

Excludes Control Assemblies for actuating engine accessories; Fitted Covers; Pylons, Aircraft; Helicopter Rotor 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 ordinance use.

- | | | |
|-------------|--|-----------------|
| 1710 | Aircraft Arresting, Barrier, and Barricade Equipment
<u>Includes</u> Shipboard and land based types. | A, N, AF |
| 1720 | Aircraft Launching Equipment
<u>Includes</u> Catapults; Shipboard and land based types.
<u>Excludes</u> Missile Launchers; Airborne Launchers. | A, N, AF |
| 1730 | Aircraft Ground Servicing Equipment
<i>Note: This class excludes "vehicular components" such as those listed under FSC's 2520, 2530, 2540, 2590.</i>
<u>Includes</u> 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.
<u>Excludes</u> Airfield Specialized Trucks and Trailers designed primarily for transporting aircraft assemblies; Maintenance Stands designed for support of aircraft assemblies during repair or overhaul; Test Stands; General Purpose Jacks, Slings and Hoists; Trailers, Liquid Oxygen, Aircraft Servicing. | A, N, AF |
| 1740 | Airfield Specialized Trucks and Trailers
<i>Note: This class excludes "vehicular components" such as those listed under FSC's 2520, 2530, 2540, 2590.</i>
<u>Includes</u> 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.
<u>Excludes</u> Airfield Specialized Lift Trucks and Trailers; Highway Type Trucks and Trailers; Cargo Loading and Unloading Trailers and Trucks. | A, N, AF |

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 applicable.

1905	<p>Combat Ships and Landing Vessels</p> <p><u>Includes</u> Aircraft Carriers; Battleships; Cruisers; Destroyers; Submarines; Frigates and Corvettes; Gunboats; Motor Torpedo Boats; Subchasers; Landing Barges; Minelaying and Mine Sweeping Craft.</p>	N
1910	Transport Vessels, Passenger and Troop	N
1915	Cargo and Tanker Vessels	N
1920	Fishing Vessels	N
1925	<p>Special Service Vessels</p> <p><u>Includes</u> Tugs; Towboats; Fire Boats; Ice Breakers; Repair Ships; Tender Vessels (Buoy, Lighthouse, Destroyer); Lightships, Cable Ships; Salvage and Submarine Rescue Vessels.</p> <p><u>Excludes</u> Combat Vessels; Dredges.</p>	N
1930	<p>Barges and Lighters, Cargo</p> <p><u>Includes</u> Aircraft Lighters, Car Floats, and other Transportation Barges, Depot Barges; Scows.</p>	A, N
1935	<p>Barges and Lighters, Special Purpose</p> <p><u>Includes</u> 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.</p> <p><u>Excludes</u> Combat Landing Barges.</p>	A, N
1940	<p>Small Craft</p> <p><u>Includes</u> Powered and Unpowered Small Craft; Lifesaving Boats; Airplane Crash Boats; Reconnaissance Boats; Yachts; Pneumatic Boats.</p> <p><u>Excludes</u> Fishing Craft; Life Rafts, including Pneumatic; Bridge Floats and Pontoons.</p>	A, N
1945	<p>Pontoons and Floating Docks</p> <p><u>Includes</u> Camels; Pontoon Stanchions; Pontoon Ramps</p> <p><u>Excludes</u> Floating Drydocks; Bridge Floats and Pontoons; Pontoon Hardware (Jewelry).</p>	A, N
1950	Floating Drydocks	N
1955	<p>Dredges</p> <p>Including Dredges, without Hull; Ocean-Going Dredges; Floating Dredges.</p>	N
1990	Miscellaneous Vessels Includes Commercial Sailing Vessels.	N
GROUP 20		
Ship and Marine Equipment		
2010	<p>Ship and Boat Propulsion Components</p> <p><u>Includes</u> Propulsion Shafts; Ship Propellers; Marine Transmissions, Reverse and Reduction Gear Type.</p> <p><u>Excludes</u> Engines; Turbines.</p>	A, N
2020	<p>Rigging and Rigging Gear</p> <p><u>Includes</u> Masts; Kingposts; Sail Booms; Shipborne Booms not attached to Cranes and Derricks.</p> <p><u>Excludes</u> Tackle Blocks.</p>	A, N

2030	Deck Machinery <u>Includes</u> Steering Gears and Controls; Boat Davits.	A, N
2040	Marine Hardware and Hull Items <u>Includes</u> 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.	A, N
2050	Buoys	A, N
2060	Commercial Fishing Equipment <u>Excludes</u> Fishing Vessels	A, N
2090	Miscellaneous Ship and Marine Equipment <u>Includes</u> Sails; Chain Ladders; Rope Ladders; Marine Furniture.	A, N

GROUP 22

Railway Equipment

2210	Locomotives <i>Note: This class includes only complete locomotives and tenders. End items, assembles, parts, attachments, or accessories for use in or on locomotives and tenders are classified in classes other than this class.</i> <u>Excludes</u> Self-Propelled Cars.	A, N, AF
2220	Rail Cars <i>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.</i> <u>Includes</u> Trailer Cars; Self-Propelled Cars. <u>Excludes</u> Aerial Tramway Cars.	A, N, AF
2230	Right-of-Way Construction and Maintenance Equipment. Railroad <u>Includes</u> Rail Laying, Joining, and Shifting Equipment; Dynamometer Cars; Gang Cars; Car Mounted and not Car Mounted Equipment; Mounted Wrecking Cranes; Locomotive Cranes. <u>Excludes</u> Hand Tools.	A, N, AF, D
2240	Locomotive and Rail Car Accessories and Components <u>Includes</u> Railroad Furniture.	A, N, AF
2250	Track Materials, Railroad <u>Includes</u> Railroad Rails; Frogs; Fish Plates; Switches; Crossings; Tie Plates; Joint Bars; Cross Bars; Railroad Spikes. <u>Excludes</u> Ballast; Rail Laying, Joining, and Shifting Equipment; Railroad Ties.	A, N, AF

GROUP 23

Ground Effect Vehicles, Motor Vehicles, Trailers, and Cycles

2305	Ground Effect Vehicles	A, N
2310	<p>Passenger Motor Vehicles</p> <p><i>Note: This class includes only complete passenger motor vehicles, and chassis 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.</i></p> <p><u>Includes</u> Cars, Motor, Highway; Buses; Chassis, Passenger Motor Vehicle; Hearses; Ambulances.</p> <p><u>Excludes</u> Amphibious Personnel Carriers; All Truck Chassis.</p>	A, N
2320	<p>Trucks and Truck Tractors, Wheeled</p> <p><i>Note: This class includes only complete wheel mounted trucks and truck tractors, and chassis therefor. 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.</i></p> <p><u>Includes</u> Panel, Delivery and Pick Up Trucks, Tactical and Administrative Military Cargo Carrying Vehicles, including Wheel Mounted Amphibian Vehicles; Truck Tractor and Trailer Combinations; Armoured Cars.</p> <p><u>Excludes</u> 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, hangars, and warehouses; Tracked and Halftracked Vehicles.</p>	A, N, AF
2330	<p>Trailers</p> <p><i>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 trailer-mounted machine shop, is excluded from this class.</i></p> <p><u>Includes</u> Semitrailers; Semitrailer Dollies; Cargo Trailers; Passenger and House Trailers, Special Purpose Trailers, such as Ammunition.</p> <p><u>Excludes</u> Fire Fighting Trailers, Specially designed trailers for use in and around airfields, hangars, and warehouses.</p>	A, N, AF
2340	<p>Motorcycles, Motor Scooters, and Bicycles</p> <p><i>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.</i></p> <p><u>Includes</u> Sidecars; Tricycles. <u>Excludes</u> Children's Wheeled Goods.</p>	A, N

2350	<p>Combat, Assault, and Tactical Vehicles, Tracked</p> <p><i>Note: This class includes only complete combat, assault, and tactical tracked vehicles, and chassis therefor. 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.</i></p> <p><u>Includes</u> Tanks and Tracked Self-Propelled Weapons and Vehicles with or without amphibian capabilities; Armored Halftracks; Self-Propelled Sleds; and Self-Propelled Flame Throwers.</p> <p><u>Excludes</u> Wheel Mounted Vehicles.</p>	A, N
GROUP 24		
Tractors		
2410	<p>Tractors, Full Track, Low Speed</p> <p><i>Note: This class includes only complete low speed, full track tractors and their cab, body, and frame structural components. Any end items, assemblies, parts, attachments, or accessories, other than cab, body, and frame structural components for use in or on low speed, full track tractors, are classified in classes other than this class.</i></p> <p><u>Includes</u> Leaf type Springs for Track Laying Tractors.</p> <p><u>Excludes</u> Truck Tractors; Fork Lift Tractors, Platform and Straddle Tractors; Tugs; High Speed Tractors.</p>	A, N
2420	<p>Tractors, Wheeled</p> <p><i>Note: This class includes only complete wheeled tractors and their cab, body, and frame structural components. Any end items, assemblies, parts, attachments, or accessories, other than cab, body, and frame structural components, for use in or on wheeled tractors, are classified in classes other than this class.</i></p> <p><u>Includes</u> Leaf type Springs for Wheeled Tractors.</p> <p><u>Excludes</u> High Speed Tractors; Truck Tractors; Fork Lift Tractors; Platform and Straddle Tractors; Stackers; Tugs; Walking Type Garden Tractors; Warehouse Type Tractors.</p>	A, N
2430	<p>Tractors, Track Laying, High Speed</p> <p><i>Note: This class includes only complete high speed track laying tractors and their cab, body, and frame structural components. Any end items, assemblies, parts, attachments, or accessories, other than cab, body, and frame structural components, for use in or on high speed track laying tractors, are classified in classes other than this class.</i></p> <p><u>Includes</u> Nonrigid Bogie Suspension Type Tractors; Leaf type Springs for High Speed Tractors.</p> <p><u>Excludes</u> Rigid Bogie Suspension Type Tractors; Rigid Frame Construction Type Tractors; Construction Type Wheeled and Track Laying Tractors; Warehouse Type Tractors.</p>	A, N

GROUP 25

Vehicular Equipment Components

Note: The term "vehicular," as delimited for Group 25, is applicable to those vehicles included in Group 23, and to tractors, construction vehicles, and warehouse trucks, tractors and trailers; it does not apply to railway vehicles, aircraft, and watercraft. An item of supply which is a "vehicular" component, within the scope of Group 25 (as delimited above) is classified in this group, regardless of whether it has additional applications on vehicles outside the delimitations for this group, except when otherwise specified in the FSC structure (as in Class 2510).

2510	Vehicular Cab, Body, and Frame Structural Components <i>Note: This class excludes components for tractors, construction vehicles, or warehouse trucks, tractors, or trailers.</i> <u>Includes</u> Leaf type Vehicular Springs. <u>Excludes</u> Vehicular Hardware; Specialized Vehicular Furniture.	A, N, D
2520	Vehicular Power Transmission Components <u>Includes</u> Transfer Transmission Assemblies; Clutch Assemblies; Universal Joints; Propeller Shafts; Automotive Torque Converters; Power Takeoffs.	A, N, D
2530	Vehicular Brake, Steering, Axle, Wheel, and Track Components <u>Includes</u> Turret Brakes; Clutch Brakes, Tank Turret.	A, N, D
2540	Vehicular Furniture and Accessories <u>Includes</u> Automobile Seat Covers; Windshield Wipers; Bumper Guards; Mirrors, Rear View and Side View; Vehicle Heaters; Shock Absorbers; Vehicular Furniture. <u>Excludes</u> Speedometers.	A, N, D
2590	Miscellaneous Vehicular Components <u>Includes</u> 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.	A, N, D

GROUP 26

Tires and Tubes

2610	Tires and Tubes, Pneumatic, Except Aircraft <u>Excludes</u> Aircraft Pneumatic Tires and Tubes.	A, N
2620	Tires and Tubes, Pneumatic, Aircraft.	A, N, AF
2630	Tires, Solid and Cushion <u>Includes</u> Rubber Track Laying Treads.	A, N
2640	Tire Rebuilding and Tire and Tube Repair Materials <u>Includes</u> Tread Gum; Cold Patches; Friction Cord Fabric; Vulcanizing Patches; Padding Stock; Quick-Cure Gum; Tire and Tube Repair Kits; Camelback; Valves; Valve Cores. <u>Excludes</u> Vulcanizing Machinery and Equipment.	A, N

GROUP 28

Engines, Turbines, and Components

2805	Gasoline Reciprocating Engines, Except Aircraft; and Components <u>Includes</u> Gas Reciprocating Engines; All Gasoline Reciprocating Engines except Aircraft Prime Moving. <u>Excludes</u> Engine Accessories.	A, N, AF, D
2810	Gasoline Reciprocating Engines, Aircraft; and Components <u>Includes</u> Only Aircraft Prime Mover type. <u>Excludes</u> Engine Accessories.	A, N, AF
2815	Diesel Engines and Components <u>Including</u> Automotive, Industrial, Marine, Locomotive, and all other types of Diesel and Semi-Diesel Engines. <u>Excludes</u> Engine Accessories.	A, N, AF, D
2820	Steam Engines, Reciprocating; and Components	A, N, AF
2825	Steam Turbines and Components <u>Includes</u> Mercury Vapor Turbines.	A, N, AF
2830	Water Turbines and Water Wheels; and Components	A, N, AF
2835	Gas Turbines and Jet Engines, Except Aircraft; and Components <u>Includes</u> All Gas Turbines and Jet Engines except Aircraft and Guided Missile Prime Moving; Airborne Auxiliary and Ground Gas Turbine Power Units for Aircraft Engine Starting. <u>Excludes</u> Engine Accessories.	A, N, AF
2840	Gas Turbines and Jet Engines; Aircraft; and Components <u>Includes</u> Reservoirs, Hydraulic Tank, Oil; Turbo-jet and Turbo-prop Prime Movers of Aircraft and Guided Missiles. <u>Excludes</u> Engine Accessories.	A, N, AF
2845	Rocket Engines and Components <u>Includes</u> Rocket Prime Movers, Liquid Type, including Liquid 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. <u>Excludes</u> Rocket Motors (Solid Propellant Units); Liquid Propellants predetermined to specific quantity and quality, but packaged in reusable containers; Solid Propellant Squibs and Cartridges, whether intended for insertion into Liquid Propellant Systems or not.	A, N, AF
2895	Miscellaneous Engines and Components <u>Includes</u> Wind and Compressed Air Engines	A, N, AF, D

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	<p>Engine Fuel System Components, Nonaircraft</p> <p><u>Includes</u> Carburetors; Fuel Pumps; Fabricated Fuel Lines; Engine Fuel Filters; Fuel Tanks; Components for all engines except Aircraft and Guided Missile Prime Moving.</p>	A, N, AF, D
2915	<p>Engine Fuel System Components, Aircraft</p> <p><u>Includes</u> Carburetors; Fuel Pumps; Engine Fuel Filters; Fuel Controls, Jet Engine; Fuel Primers; Water Injection Controls and Valves; Fuel Valves and Strainers; Fuel Flow Regulators; Smoke Abatement Systems; Components of Aircraft and Guided Missile Prime Mover type only.</p> <p><u>Excludes</u> Aircraft Fuel Tanks; Aircraft Auxiliary Engine Components; In-flight Refueling System Fuel Components.</p>	A, N, AF
2920	<p>Engine Electrical System Components, Nonaircraft</p> <p><u>Includes</u> Generators; Magnetos; Spark Plugs; Ignition Coils; Ignition Distributors; Engine Voltage Regulators; Ignition Harness Assemblies; Starting Motors for Engines.</p> <p><u>Excludes</u> Vehicular Lighting Fixtures and Aircraft Generators.</p>	A, N, AF, D
2925	<p>Engine Electrical System Components, Aircraft</p> <p><u>Includes</u> Magnetos; Spark Plugs; Ignition Coils; Ignition Distributors; Engine Voltage Regulators; Ignition Harness Assemblies; Starting Motors for Engines; Engine Accessory Generators.</p> <p><u>Excludes</u> Aircraft Lighting Fixtures and Auxiliary Aircraft Generators.</p>	A, N, AF
2930	<p>Engine Cooling System Components, Nonaircraft</p> <p><u>Includes</u> Cooling Fans; Radiators; Water Pumps; Water Hose Assemblies; Engine Coolant Filters; Components for all Engines except Aircraft and Guided Missile Prime Moving.</p>	A, N, AF, D
2935	<p>Engine Cooling System Components, Aircraft</p> <p><u>Includes</u> Radiators; Cooling System Pumps; Water Hose Assemblies; Lubricating Oil Coolers and Control Valves; Oil Temperature Regulators; Components for Aircraft and Guided Missile Prime Mover type only.</p> <p><u>Excludes</u> Aircraft Auxiliary Engine Components.</p>	A, N, AF
2940	<p>Engine Air and Oil Filters, Strainers, and Cleaners, Nonaircraft</p> <p><u>Includes</u> Components for all Engines except Aircraft and Guided Missile Prime Moving.</p> <p><u>Excludes</u> Air and Oil Filters, Strainers, and Cleaners not specifically designed for use with engines.</p>	A, N, AF, D
2945	<p>Engine Air and Oil Filters, Strainers, and Cleaners, Aircraft</p> <p><u>Includes</u> Components for Aircraft and Guided Missile Prime Mover type only.</p> <p><u>Excludes</u> Air and Oil Filters, Strainers, and Cleaners not specifically designed for use with engines; Aircraft Auxiliary Engine Components.</p>	A, N, AF
2950	<p>Turbosuperchargers</p> <p><u>Includes</u> Turbosupercharger Regulators; Ground and Aircraft Engine Turbosuperchargers.</p> <p><u>Excludes</u> Engine Integrated Superchargers.</p>	A, N, AF
2990	<p>Miscellaneous Engine Accessories, Nonaircraft</p> <p><u>Includes</u> Engine Dynafocal Suspension Mounts; Engine Driven Superchargers (not integrated with engine); Starter Cranks; Engine Starter Ropes; Exhaust Mufflers; Hand Inertia Starters; Air Duct Heaters;</p>	A, N, AF, D

Engine Governors; Intake Mufflers; Combustion Type Starters; Miscellaneous Accessories for all Engines except Aircraft and Guided Missile Prime Moving.

Excludes Electrical Starters.

2995

Miscellaneous Engine Accessories, Aircraft

A, N, AF

Includes Engine Dynafocal Suspension Mounts; Engine Cowling Mounts; Engine Control Quadrants; Pneumatic Starters; Control Assemblies, Push-Pull; Specially designed Jet Engine Oil, Air, Anti-icing and Hydraulic Regulators, Valves, and Pumps; Combustion Type Starters; Miscellaneous Accessories for Aircraft and Guided Missile Prime Mover type only.

Excludes Exhaust Systems; Jet Engine Oil Pumps, Integral with Engine; Jet Engine Hydraulic Reservoirs; Jet Engine Oil Tanks; Electrical Starters; Aircraft Auxiliary Engine Accessories; Aircraft Engine Covers.

GROUP 30

Mechanical Power Transmission Equipment

3010

Torque Converters and Speed Changers

A, N, D

Note: Items specifically designed for specific use on or with specific individual types of equipment are excluded from this class and are to be classified in the same classes as their next higher assemblies. The FSC indexes and structure will govern the classification of those items permitted classification in a single class only.

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

Excludes Automotive Torque Converters; Vehicular Power Transmission Components; Rotary Aircraft Transmission Gear Units.

3020

Gears, Pulleys, Sprockets, and Transmission Chain

A, N, D

Note: Items specifically designed for specific use on or with specific individual types of equipment are classifiable in this class. The FSC indexes and structure will govern the classification of items such as Sash Pulleys (FSC Class 5340). The transmission chain included in this class may be in bulk, cut-to-size, or endless.

Includes Power Transmission Chain; Matched Gear Sets.

Excludes Reduction Gears.

3030

Belting, Drive Belts, Fan Belts, and Accessories

A, N, D

Note: This class includes belting, drive belts, and fan belts regardless of whether specifically designed for a specific use or for multiapplication. Items included in the class may be in bulk, cut-to-size, or endless.

3040

Miscellaneous Power Transmission Equipment

A, N, D

Note: Items specifically designed for specific use on or with specific individual types or equipment are excluded from this class and are to be classified in the same classes as their next higher assemblies. The FSC indexes and structure will govern the classification of those items permitted classification in a single class only.

Includes Shafts and Shafting; Collars; Flexible Shafting.

GROUP 31

Bearings

Note: All Bearings, whether specially designed, specially lubricated, or specially selected, are classified in the appropriate classes of this group, unless specifically excluded, such as Jewel Bearings (FSC Class 6695).

3110	<p>Bearings, Antifriction, Unmounted</p> <p><u>Includes</u> Ball Bearings; Roller Bearings; Balls; Races</p> <p><u>Excludes</u> Plain Bearings; Jewel Bearings.</p>	A, N, AF, D
3120	<p>Bearings, Plain, Unmounted</p> <p><u>Includes</u> Sleeve Bearings; Split Bearings; Washer Type Bearings.</p> <p><u>Excludes</u> Antifriction Bearings.</p>	A, N, AF, D
3130	<p>Bearings, Mounted</p> <p><u>Includes</u> Pillow Block Units; Cartridge Units; Flange Units; Takeup Units; Hanger Box Units; Flat Box Units; Step Box Units.</p>	A, N, AF, D
<p>GROUP 34</p> <p>Metalworking and Machinery</p>		
3405	<p>Saws and Filing Machines</p> <p><u>Includes</u> Cutoff Machines; Saw Blade Dressing Machines; Retooling Machines.</p>	A, N, AF, D
3408	<p>Machining Centers and Way-type Machines</p> <p><i>Note: The following definitions apply to "Machining Centers" and "Way-type Machines".</i></p> <p>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 means for positioning various faces of the work piece. It may have facilities for automatic interchanging of varied cutting tools between successive operations.</p> <p>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.</p>	A, N, AF, D
3410	<p>Electrical and Ultrasonic Erosion Machines</p> <p><u>Includes</u> Electrical Discharge Machines; Electrolytic Grinding Machines.</p>	A, N, AF, D
3411	Boring Machines	A, N, AF, D
3412	Broaching Machines	A, N, AF, D
3413	<p>Drilling and Tapping Machines</p> <p><u>Includes</u> Multiple Spindle Drilling-Tapping Machines.</p> <p><u>Excludes</u> Way-type Machines.</p>	A, N, AF, D
3414	Gear Cutting and Finishing Machines	A, N, AF, D
3415	<p>Grinding Machines</p> <p><u>Excludes</u> Electrolytic Grinding Machines.</p>	A, N, AF, D
3416	<p>Lathes</p> <p><u>Includes</u> Screw Machines.</p> <p><u>Excludes</u> Speed Lathes, Metal Spinning Lathes, Cartridge Case and Shell Lathes.</p>	A, N, AF, D

3417	Milling Machines	A, N, AF, D
3418	Planers and Shapers <u>Includes</u> Combination Shaper-Planers. <u>Excludes</u> Gear Shapers; Planer Type Milling Machines.	A, N, AF, D
3419	Miscellaneous Machine Tools <u>Includes</u> Gun Rifling Machines; Speed Lathes.	A, N, AF, D
3422	Rolling Mills and Drawing Machines	A, N, AF, D
3424	Metal Heat Treating and Non-Thermal Treating Equipment <u>Includes</u> Hardening, Annealing, Tempering, Normalizing, Cyaniding, and Carburizing Equipment; Furnaces, Flue Welding, Non-Thermal Stress Relieving Systems.	A, N, AF, D
3426	Metal Finishing Equipment <u>Includes</u> Galvanizing, Tinning, Oiling, Pickling, Electroplating, and Anodizing Equipment.	A, N, AF, D
3431	Electric Arc Welding Equipment <u>Includes</u> Gas Shielded Arc Welding Machines; Arc Bonding Machines; Semi-Automatic and Automatic Arc Welding Machines. <u>Excludes</u> Welding Supplies, and Associated Equipment such as: Flux Recovery Machines, Flux Dispensers; Tacker Panels; Welding Panels.	A, N, AF, D
3432	Electric Resistance Welding Equipment <u>Includes</u> Electric Resistance Brazing Machines; Band Saw Brazers; Stored Energy Resistance Welding Machines. <u>Excludes</u> Electric Induction Brazing and Soldering Machines.	A, N, AF, D
3433	Gas Welding, Heat Cutting, and Metalizing Equipment <u>Includes</u> Metal Spray Guns; Arc Cutting Machines; Torches and Tips; Gas Brazing Machines; Flame Cutting Machines; Vacuum Metalizers; Spark Discharge Metalizers. <u>Excludes</u> Welding Supplies; Disintegrating Machines.	A, N, AF, D
3436	Welding Positioners and Manipulators <u>Includes</u> Welding Tables.	A, N, AF, D
3438	Miscellaneous Welding Equipment <u>Includes</u> Thermit Welding Equipment; Flux Recovery Machines; Flux Dispensers; Arc Converters; Welding Panels.	A, N, AF, D
3439	Miscellaneous Welding, Soldering, and Brazing Supplies and Accessories <u>Includes</u> Soldering Irons; Welding Electrodes and Rods; Brazing Fluxes; Soldering Fluxes; Solder.	A, N, AF, D
3441	Bending and Forming Machines <u>Excludes</u> Wire and Metal Ribbon Forming Machines.	A, N, AF, D
3442	Hydraulic and Pneumatic Presses, Power Driven <u>Includes</u> Metal Powder Compacting Presses.	A, N, AF, D
3443	Mechanical Presses, Power Driven <u>Includes</u> Metal Powder Compacting Presses.	A, N, AF, D

3444	Manual Presses <u>Includes</u> Arbor, Straightening, Forcing, and Assembly Presses.	A, N, AF, D
3445	Punching and Shearing Machines	A, N, AF, D
3446	Forging Machinery and Hammers <u>Excludes</u> Forging Presses.	A, N, AF, D
3447	Wire and Metal Ribbon Forming Machines <u>Excludes</u> Roll Forming Machines.	A, N, AF, D
3448	Riveting Machines <u>Excludes</u> Power Driven Hand Riveting Machines.	A, N, AF, D
3449	Miscellaneous Secondary Metal Forming and Cutting Machines <u>Includes</u> Metal Spinning Lathes.	A, N, AF, D
3450	Machine Tools, Portable <u>Includes</u> Portable Abrasive Cutting Machines; Portable Drilling Machines; Portable Slotters and Shapers. <u>Excludes</u> stationary type machine tools mounted on portable devices such as wheel or leg type stands.	A, N, AF, D
3455	Cutting Tools for Machine Tools <u>Includes</u> Broaches; Files; Milling Cutters; Reamers; Saws. <u>Excludes</u> Flame Cutting Tools.	A, N, AF, D
3456	Cutting and Forming Tools for Secondary Metalworking Machinery	A, N, AF, D
3460	Machine Tool Accessories <u>Excludes</u> Abrasive Wheels, Cones, and other Abrasive Attachments for use only on Hand Held Power Tools.	A, N, AF, D
3461	Accessories for Secondary Metalworking Machinery <u>Excludes</u> Parts Feeders.	A, N, AF, D
3465	Production Jigs, Fixtures, and Templates <i>Note: This class includes jigs, fixtures, and templates used in conjunction 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.</i>	A, N, AF, D
3470	Machine Shop Sets, Kits, and Outfits	A, N, AF, D

GROUP 35

Service and Trade Equipment

3520	Shoe Repairing Equipment <u>Includes</u> Shoe Sewing Machines; Mobile Shoe Repair Shops.	AF, D
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GROUP 36

Special Industry Machinery

3605	Food Products Machinery and Equipment <u>Includes</u> Industrial Food Products Equipment. <u>Excludes</u> Kitchen and Galley Equipment.	D
3610	Printing, Duplicating, and Bookbinding Equipment <u>Includes</u> 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. <u>Excludes</u> Microfilm Machines.	D
3611	Industrial Marking Machines <i>Note: Marking machines which make permanent indentations in metal are classified in Group 34.</i> <u>Excludes</u> Marking Machines, Laundry; Printing Machine, Label; Printing Press, Label; Embossing Machines, Office Type and Marking Machines, Office Type.	D
3615	Pulp and Paper Industries Machinery <u>Includes</u> Chippers; Digestors; Beaters; Bleaching Equipment; Paperboard Manufacturing Machinery. <u>Excludes</u> Paperboard Box, Case and Tray Making Machines.	D
3620	Rubber and Plastics Working Machinery <u>Includes</u> Plasticators; Presses; Synthetic Rubber Working Machinery; Tread Extruding Machinery; Vulcanizing Machinery. <u>Excludes</u> Protective Covering Laminating Presses; Tire Maintenance and Repair Equipment.	D
3625	Textile Industries Machinery <u>Includes</u> Cotton Ginning Machinery; Looms; Button Covering Machines; Rope Laying Machines; Lace Machines.	A, D
3630	Clay and Concrete Products Industries Machinery <u>Includes</u> Brickmaking Machinery.	D
3635	Crystal and Glass Industries Machinery <u>Includes</u> Optical Goods Manufacturing Machinery. <u>Excludes</u> Ophthalmic Lens Cutting, Drilling, Edging, and Grinding Machines; Specialized Semi-conductor, Microelectronic Circuit Device, and Printed Circuit Board Manufacturing Machinery.	D
3640	Tobacco Manufacturing Machinery	D
3645	Leather Tanning and Leather Working Industries Machinery	D
3650	Chemical and Pharmaceutical Products Manufacturing Machinery <u>Includes</u> Crushers and Mills for Chemical Materials; Pharmaceutical Briquetting and Tableting Presses; Chemical Explosives Manufacturing Machinery.	D

	Excludes Construction Materials Crushers, Mills and Pulverizers; Plastics 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 <i>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 structures of the FSC.</i> Excludes Meteorological Equipment.	D
3660	Industrial Size Reduction Machinery <i>Note: This class includes general use machinery related to two or more manufacturing industries.</i> Excludes Chemical Products and Construction and Mining Type Crushing, Pulverizing, Screening and Mixing Machinery; Maintenance and Repair Shop Type Mixers.	D
3670	Specialized Semiconductor, Microcircuit, and Printed Circuit Board Manufacturing Machinery <i>Note: This class includes, and is restricted to, equipment specifically designed for manufacturing semiconductor devices (Class 5961), microcircuits (Class 5962), and printed circuit boards (Class 5999). Excludes items for which more suitable classes are specifically prescribed by the indexes and structures of the FSC.</i> Includes Substrate Preparation Equipment; Circuit Pattern Forming Equipment; Interconnecting and Packaging Equipment. Excludes Assembly Machines for Mounting Discrete Components on Printed Wiring Boards.	D
3680	Foundry Machinery, Related Equipment and Supplies Includes Molding Machines; Tumbling Mills, Foundry Dextrine; Core Paste. Excludes Crucible Furnaces; Cupola Furnaces; Foundry Hand Tools.	D
3685	Specialized Metal Container Manufacturing Machinery and Related Equipment <i>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.</i> Includes Drum and Jerrican Manufacturing Machinery; Specially Designed Container Leak Testing Machines; Can Making Machinery.	D
3690	Specialized Ammunition and Ordnance Machinery and Related Equipment Includes Ammunition and Explosives 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; Non-specialized or Standard Machinery not designed exclusively for manufacturing or assembling ammunition and ordnance equipments.	D

3693	<p>Industrial Assembly Machines</p> <p><i>Note: This class includes equipment specifically designed to assemble pre-fabricated 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.</i></p> <p><u>Includes</u> Industrial Production Type Power Screw-driving Machines; Circuit Card Assembly Machines.</p> <p><u>Excludes</u> Specialized Ammunition and Ordnance Assembly Machines; Wrapping and Packaging Machinery; Metalworking Machinery; Hand Tools.</p>	D
3694	<p>Clean Work Stations, Controlled Environment, and Related Equipment</p> <p><u>Includes</u> Laminar and Non-Laminar Flow Enclosures; Dust Controlled Facilities; Air Showers.</p>	D
3695	<p>Miscellaneous Special Industry Machinery</p> <p><u>Includes</u> Communication Wire Dispenser Fabricating Machinery; Specialized Logging Equipment; Petroleum Refinery Machinery; Shoemaking Machinery; Production Type Impregnating Equipment.</p> <p><u>Excludes</u> Ophthalmic Lens Cutting and Grinding Machinery; Clothing Impregnating Equipment.</p>	A, N, D
<p>GROUP 38</p> <p>Construction, Mining, Excavating, and Highway Maintenance Equipment</p>		
3805	<p>Earth Moving and Excavating Equipment</p> <p><u>Includes</u> Scrapers; Ditchers; Loaders; Graders; Special Construction Type Earth and Rock Hauling Trucks and Trailers.</p> <p><u>Excludes</u> Standard Tractors with or without Attachments; Trailers, except Special Construction Type; Dump Trucks; Crane-Shovels.</p>	A, AF, D
3810	<p>Cranes and Crane-Shovels</p> <p><u>Includes</u> Tracklaying and Wheeled Construction Type Convertible Cranes or Shovels; Nonconvertible Mobile Cranes.</p> <p><u>Excludes</u> Barge Mounted Cranes; Crane and Crane-Shovel Attachments.</p>	A, AF, D
3815	<p>Crane and Crane-Shovel Attachments</p> <p><u>Includes</u> Shovels; Fairleads; Buckets; Skull Crackers; Booms; Lifting Electromagnets.</p>	A, AF, D
3820	<p>Mining, Rock Drilling, Earth Boring, and Related Equipment</p> <p><u>Includes</u> Quarrying and Crushing Equipment; Minerals Classifying and Separating Equipment; Pulverizing and Screening Equipment; Cable Tool and Rotary Drilling Equipment; Well Drilling Equipment; Fishing Tools; Paving Breakers.</p> <p><u>Excludes</u> Attachments for Mounting on Tractors or Trucks.</p>	A, D
3825	<p>Road Clearing and Cleaning Equipment</p> <p><u>Includes</u> Motorized Sweepers; Motorized Snowplows; Motorized Street Sprinklers; Road Marking Machines.</p> <p><u>Excludes</u> Standard Tractors with Road Clearing or Cleaning Attachments; Timber Sawing Equipment.</p>	A, AF, D

3830	<p>Truck and Tractor Attachments</p> <p><u>Includes</u> Equipment for Mounting on Trucks and Tractors, such as Bulldozers, Augurs, Blades, Snowplows, Sweepers, Road Magnets, Water Distributors, Cranes; Winches for Integral Mounting on Trucks or Tractors.</p> <p><u>Excludes</u> Power Take Off Units; 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.</p>	A, D
3835	<p>Petroleum Production and Distribution Equipment</p> <p><u>Includes</u> Well Heads; Pumping Equipment; Gas Distribution Equipment.</p> <p><u>Excludes</u> Cable Tool and Rotary Drilling Equipment; Petroleum Bulk Storage Tanks.</p>	A, AF, D
3895	<p>Miscellaneous Construction Equipment</p> <p><u>Includes</u> 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.</p> <p><u>Excludes</u> Earth Moving and Excavating Equipment; Pile Driving Attachments for Cranes and Crane-Shovels.</p>	A, AF, D
<p style="text-align: center;">GROUP 39</p> <p style="text-align: center;">Materials Handling Equipment</p> <p><i>Note: Excluded from this Group are specialized atomic ordnance and guided missile handling equipment and airfield specialized trucks and trailers.</i></p>		
3910	<p>Conveyors</p> <p><u>Includes</u> Pneumatic Tube Systems; Portable, Stationary, Powered, and Nonpowered Conveyors.</p> <p><u>Excludes</u> Asphalt Elevators.</p>	A, N, D
3915	<p>Materials Feeders</p> <p><i>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 continuously from storage bins or hoppers to process or mixing machines, and are interchangeable 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.</i></p> <p><u>Includes</u> Dry Materials Feeders; Parts Feeders.</p> <p><u>Excludes</u> Aggregate and Fines Feeders; Conveyor Feeders; Water Purification Dry Chemical Feeders.</p>	A, N, D
3920	<p>Materials Handling Equipment, Nonself-Propelled</p> <p><u>Includes</u> Dolly Trucks; Pushcarts; Handcarts; Wheelbarrows; Hand Trucks; Materials Handling Trailers.</p> <p><u>Excludes</u> Conveyors.</p>	A, N, D

3930	Warehouse Trucks and Tractors, Self-Propelled <u>Includes</u> Tug Jockeys; Fork Lift Trucks; Platform Trucks; Straddle Trucks; Cab, Body, and Frame Structural Components and Springs. <u>Excludes</u> Cranes.	A, N, D
3940	Blocks, Tackle, Rigging, and Slings <u>Excludes</u> Load Chain; Chain and Metal Rope Fittings; Wire Rope; Hoists; Ship Rigging.	A, N, D
3950	Winches, Hoists, Cranes, and Derricks <u>Includes</u> Windlasses; Capstans; Ore Bridges; Niggerheads; Gypsies; Warehouse Cranes; Wharf Cranes, Mobile or fixed; Overhead Travelling Cranes. <u>Excludes</u> Crane-Shovels; Railroad Wreckers; Barge Mounted Cranes; Winches for Integral Mounting on Trucks or Tractors; Locomotive Cranes.	A, N, D
3960	Elevators and Escalators <u>Excludes</u> Automotive Lifts; Asphalt and Aggregate Elevators.	A, N, D
3990	Miscellaneous Materials Handling Equipment <u>Includes</u> Skids; Pallets. <u>Excludes</u> Airfield Engine Transport Skids.	A, N, D

GROUP 40

Rope, Cable, Chain, and Fittings

4010	Chain and Wire Rope <i>Note: Chain or wire rope, fitted with terminations or attachments, is classified in this class only when it has multiple uses (falling into two or more classes), has general use, or has a specific use which does not provide an appropriate classification (such as one which couples dissimilar items without being predominantly related to either of the items being coupled. Excluded from the 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.</i> <u>Includes</u> Wire Chain; Load Chain; Chain and Wire Rope Assemblies with Terminations and/or Attachments, not elsewhere classifiable. <u>Excludes</u> Power Transmission Chain.	AF, N, D
4020	Fiber Rope, Cordage, and Twine <i>Note: Fiber rope, fitted with terminations or attachments, is classified in this class only when it has multiple uses (falling into two or more classes), has general use, or has a specific use which does not provide an appropriate classification. Excluded from the class are items for which more specific classifications are suitable.</i> <u>Includes</u> Halyards; Lashings; Ratline; Towline; Hawasers; Lanyards; Textile Rope; Textile Cable; Nylon Rope; Rope with Terminations and/or Attachments, not elsewhere classifiable.	AF, D
4030	Fittings for Rope, Cable, and Chain	AF, D

GROUP 41

Refrigeration, Air Conditioning, and Air Circulating Equipment

4110	Refrigeration Equipment <i>Note: This class includes only complete refrigeration equipment,</i>	A, N, AF, D
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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 structures 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

A, N, AF, D

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 (see Class 4130, or as otherwise specifically prescribed by the indexes and structure of the FSC).

4130

Refrigeration and Air Conditioning Components

A, N, AF, D

Includes Heat Exchanger Equipment; Refrigerant Strainers; Refrigeration Compressors; 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 individual prefabricated 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 "packaged" unit will be classified in Class 4110.

4140

Fans, Air Circulators, and Blower Equipment

A, N, AF, D

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; Forced 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 (see class 4520).

GROUP 42

Fire Fighting, Rescue, and Safety Equipment

4210	Fire Fighting Equipment <u>Includes</u> 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. <u>Excludes</u> Wrecking Bars.	A, N, AF, D
4220	Marine Lifesaving and Diving Equipment <u>Includes</u> Diving and Salvage Apparatus, including Pressurized Divers' Suits; Rescue Nets, Buoyant; Inflatable Life Vests; Life Rafts. <u>Excludes</u> Lifesaving Boats.	AF, D
4230	Decontaminating and Impregnating Equipment <i>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.</i>	AF
4240	Safety and Rescue Equipment <u>Includes</u> Portable Fire Escapes; Safety Nets, Nonbuoyant. <u>Excludes</u> Divers' Suits; Fixed Fire Escapes.	A, N, AF, D

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 those items permitted classification in a single class only.

4310	Compressors and Vacuum Pumps <u>Includes</u> Truck Mounted and Trailer Mounted Compressors. <u>Excludes</u> Refrigeration Compressors.	A, N, AF, D
4320	Power and Hand Pumps <u>Excludes</u> Laboratory Jet Pumps.	A, N, AF, D
4330	Centrifugals, Separators, and Pressure and Vacuum Filters <u>Excludes</u> Laboratory Centrifuges; Water Purification Filters.	A, N, AF, D

GROUP 44

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

4410	Industrial Boilers <u>Includes</u> Steam Boilers, over 15 pounds WSP; Marine Boilers; Boiler Drums; Water Heaters, Low Pressure (over 100 gallon recovery capacity).	A, N, AF
4420	Heat Exchangers and Steam Condensers	A, N, AF

4470	<p>Nuclear Reactors</p> <p><i>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.</i></p> <p><u>Includes</u> Refueling Machines; Ion Chamber Seals; Thermal Barriers; Control Rods; Steam Generators, Pressurized Water; Reactor Vessel Shells; Handling Carts; Hoisting Units; New and Spent Cartridge.</p>	A, N, AF
<p style="text-align: center;">GROUP 45</p> <p style="text-align: center;">Plumbing, Heating, and Sanitation Equipment</p>		
4510	<p>Plumbing Fixtures and Accessories</p> <p><u>Includes</u> Soap Dishes and Dispensers; Towel Racks; Plumbing Fixture Trim, such as Faucets, Shower Heads, Flush Valves, Stop Valves; Dispensers for Salt Tablets, Paper Cups, Toilet Seat Covers, Towels, and Toilet Paper; Sinks.</p> <p><u>Excludes</u> Fittings and Specialties for Hose, Pipes, and Tubes.</p>	AF, D
4520	<p>Space Heating Equipment and Domestic Water Heaters</p> <p><u>Includes</u> Hot Water Boilers (through 30 pounds water pressure); Steam and Vapor Boilers (15 pounds WSP and under); Radiators; Electric and Nonelectric Space Heaters; Warm Air Pipe and Pipeless Furnaces; Fireplace Heaters; Domestic Water Storage Tanks (through 100 gallon capacity); Water Heaters (through 100 gallon recovery capacity).</p> <p><u>Excludes</u> Vehicle Heaters; Aircraft Heaters.</p>	A, N, AF, D
4530	<p>Fuel Burning Equipment Units</p> <p><u>Includes</u> Oil Burners; Stokers; Gas Burners.</p>	AF, D
4540	<p>Miscellaneous Plumbing, Heating, and Sanitation Equipment</p> <p><u>Includes</u> Incinerators; Destructors; Septic Tanks; Garbage Disposal Units.</p>	AF, D
<p style="text-align: center;">GROUP 46</p> <p style="text-align: center;">Water Purification and Sewage Treatment Equipment</p>		
4610	<p>Water Purification Equipment</p> <p><u>Includes</u> Filtration Equipment; Water Stills, Lifesaving.</p> <p><u>Excludes</u> Water Purification and Softening Compounds.</p>	A, N, AF, D
4620	<p>Water Distillation Equipment, Marine and Industrial</p> <p><u>Excludes</u> Water Stills, Lifesaving; Laboratory Distillation Apparatus.</p>	A, N, AF, D
4630	Sewage Treatment Equipment	A, N, AF, D
<p style="text-align: center;">GROUP 47</p> <p style="text-align: center;">Pipe, Tubing, Hose, and Fittings</p>		
4710	<p>Pipe and Tube</p> <p><u>Includes</u> Metal Pipe and Tube; Rigid Pipe and Tube of plastic, synthetic rubber, or other nonmetallic material for other than underground, electrical, or laboratory use.</p>	A, N, AF, D

	<p><u>Excludes</u> Prebent Pipe specifically designed for use on or with specific equipment; Nonmetallic Pipe and Conduit for Underground Use; Electrical Conduit; Laboratory Tubes.</p>	
4720	<p>Hose and Tubing, Flexible</p> <p><i>Note: Bulk or cut-to-size flexible hose and tubing without terminations, when not indexed in other classes, are classified in this class regardless of special design.</i></p> <p><u>Includes</u> Metallic and Nonmetallic Flexible Hose and Tubing; Hydraulic, Air, Chemical, Fuel, and Oil Hose Assemblies.</p> <p><u>Excludes</u> Hose assemblies with one or more Fire Hose End Connections; Textile and Paper Tubes and Tubing; Electrical Conduit.</p>	A, N, AF, D
4730	<p>Fittings and Specialties: Hose, Pipe and Tube</p> <p><u>Includes</u> Plumbing Fittings and Specialties; Lubrication Fittings; Pipe Joints, including Expansion Joints; Exhaust Heads; Flow Nozzles; Water Columns. Nonmetallic Fittings for other than underground, electrical, or laboratory use.</p> <p><u>Excludes</u> Hose Fittings having one or more Fire Hose End Connections; Railing Fittings; Conduit Boxes and Fittings; Nonmetallic Fittings for Underground Use; Fittings for Laboratory Apparatus; Machine Thread Bushings, Magnetic and Nonmagnetic Machine Thread Plugs.</p>	A, N, AF, D
GROUP 48		
Valves		
	<p><i>Note: This group excludes valves designed for use on individual types of equipment or systems. Excluded are such items as tire valves, engine intake and exhaust valves, carburetor valves, water mixing valves, and flush valves.</i></p>	
4810	<p>Valves, Powered</p> <p><u>Includes</u> Electric Motor Operated Valves; Hydraulic Operated Valves; Solenoid Operated Valves.</p> <p><u>Excludes</u> Engine Intake and Exhaust valves; Valves specifically designed for use with fire fighting equipment, plumbing equipment, and the like.</p>	A, N, AF, D
4820	<p>Valves, Nonpowered</p> <p><u>Includes</u> Automatic Nonpowered Valves; Gate, Globe, Angle, Check, and Relief Valves; Cocks.</p> <p><u>Excludes</u> Fire Hydrants; Sprinkler Heads; Valves specifically designed for use with fire fighting equipment, plumbing equipment, and the like.</p>	A, N, AF, D

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 metal working 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.

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| 4910 | <p>Motor Vehicle Maintenance and Repair Shop Specialized Equipment
<u>Includes</u> Automotive Lifts; Wheel Aligners; Brake Service Equipment; Tire Maintenance and Repair Equipment; Test stands and test equipment specially designed for use with motor vehicles.
<u>Excludes</u> Hand Tools; Lubrication and Fuel Dispensing 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 to the FSC.</p> | A, N, AF |
| 4920 | <p>Aircraft Maintenance and Repair Shop Specialized Equipment
<u>Includes</u> 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.
<u>Excludes</u> 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.</p> | A, N, AF |
| 4921 | <p>Torpedo Maintenance, Repair, and Checkout Specialized Equipment
<u>Includes</u> 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, high 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.
<u>Excludes</u> 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.</p> | A, N, AF |
| 4923 | <p>Depth Charges and Underwater Mines Maintenance, Repair, and Checkout Specialized Equipment
<u>Includes</u> 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.
<u>Excludes</u> 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.</p> | A, N, AF |

4925	<p>Ammunition Maintenance, Repair, and Checkout Specialized Equipment</p> <p><u>Includes</u> 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.</p> <p><u>Excludes</u> 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.</p>	A, N, AF
4927	<p>Rocket Maintenance, Repair and Checkout Specialized Equipment</p> <p><u>Includes</u> 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.</p> <p><u>Excludes</u> 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.</p>	A, N, AF
4930	<p>Lubrication and Fuel Dispensing Equipment</p> <p><u>Includes</u> 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.</p> <p><u>Excludes</u> Alemite and Lubrication Fittings.</p>	A, N, AF, D
4931	<p>Fire Control Maintenance and Repair Shop Specialized Equipment</p> <p><u>Includes</u> Specially Designed Test Equipment; Maintenance Fixtures and Stands.</p> <p><u>Excludes</u> Instruments for use on both Fire Control and other Equipment; Airborne Fire Control Maintenance and Repair Shop Equipment.</p>	A, N, AF
4933	<p>Weapons Maintenance and Repair Shop Specialized Equipment</p> <p><u>Includes</u> Maintenance Stands, Fixtures, and Jigs.</p> <p><u>Excludes</u> Atomic Ordnance Maintenance and Repair Shop Specialized Equipment; Airborne Weapons Maintenance and Repair Shop Equipment.</p>	A, N, AF
4935	<p>Guided Missile Maintenance, Repair, and Checkout Specialized Equipment</p> <p><u>Includes</u> Checkout equipment and test equipment specially designed for use with guided missiles and guided missile remote control systems.</p> <p><u>Excludes</u> 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</p>	A, N, AF

	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 <u>Includes</u> Paint Spraying Equipment. <u>Excludes</u> Hand Tools.	A, N, AF
4960	Space Vehicle Maintenance, Repair, and Checkout Specialized Equipment <u>Includes</u> Checkout and Test Equipment specially designed for use with Space Vehicles, including Remote Control Systems. <u>Excludes</u> 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.	A, N, AF
GROUP 51		
Hand Tools		
5110	Hand Tools, Edged, Nonpowered <u>Includes</u> Chisels; Files; Pipe Cutters; Rasps; Saws; Screw Plates; Axes; Hatchets; Machetes.	AF
5120	Hand Tools, Nonedged, Nonpowered <u>Includes</u> Hammers; Picks; Pliers, except pliers for cutting only; Screwdrivers; Shovels; Construction Rakes, Forks and Hoes; Jacks, including Contractors' Jacks; Wrecking Bars; Glue Pots; Blowtorches. <u>Excludes</u> Craftsman's Measuring Tools; Gardening Rakes, Forks, Hoes, and other Garden Tools.	AF
5130	Hand Tools, Power Driven <u>Includes</u> Drills; Riveters; Portable Electric Saws; Pneumatic Tools; Abrasive Wheels, Cones, and other Abrasive Attachments for use only on Hand Held Power Tools.	AF
5133	Drill Bits, Counterbores, and Countersinks: Hand and Machine	AF
5136	Taps, Dies, and Collets: Hand and Machine <u>Excludes</u> Punching, Stamping, and Marking Dies.	AF
5140	Tool and Hardware Boxes	AF
5180	Sets, Kits, and Outfits of Hand Tools	AF

GROUP 52

Measuring Tools

5210	Measuring Tools, Craftsmen's <i>Note: This class does not include special inspection gages, which are classified in Class 5220.</i>	AF
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	Includes Calipers; Levels; Micrometers; Plumb Bobs; Precision Tapes; Squares; Angle Gages; Centre Gages; Depth Gages; Draw Gages; Drill Point Gages; Fillet and Radius Gages; Glasiers' 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 <i>Note: Special inspection gages are included in this class.</i> Includes Go and Not-Go Gages, including Plug, Ring, Snap, Thread, and Length Gages; Profile Gages; Fixture Gages, Special Inspection Gages.	A, N, AF
5280	Sets, Kits, and Outfits of Measuring Tools	AF
GROUP 53 Hardware and Abrasives		
5305	Screws	A, N, AF, D
5306	Bolts	A, N, AF, D
5307	Studs	A, N, AF, D
5310	Nuts and Washers Excludes Thrust Washers.	A, N, AF, D
5315	Nails, Keys, and Pins Includes Dowel Pins, Metal; Leader Pins; Split Pins; Shafting Keys; Shafting Pins; Spikes, except Railroad; Tacks; Staples, Nonoffice Type; Brads. Excludes Railroad Spikes.	A, N, AF, D
5320	Rivets	A, N, AF, D
5325	Fastening Devices Includes Eyelets; Grommets; Aircraft Cowling Fasteners; Textile Fasteners.	A, N, AF, D
5330	Packing and Gasket Materials Includes General Purpose Oil and Grease Seals and Retainers; Bibb Washers; Oakum; Specialized Bulk Packing and Gasket Materials; Gasket Strip and Tape; Prefabricated Gaskets and Seals designed for a single specific application.	A, N, AF, D
5335	Metal Screening Includes Insect Screening; Industrial Metal Cloth and Mesh. Excludes Fencing.	A, N, AF, D
5340	Miscellaneous Hardware Includes Cabinet Hardware; Casters; Door Closers; Hinges; Locks; Turnbuckles; Casket Hardware; Trunk and Luggage Hardware; Vibration Absorbers and Mounts, Nonhydraulic. Excludes Marine Hardware.	A, N, AF, D
5345	Disks and Stones, Abrasive Includes Abrasive Belts and Belting; Hones; Abrasive Wheels, Multi-application.	A, AF

	<u>Excludes</u> Dental Abrasives; Abrasive Cones, and other Abrasive Attachments for equipment.	
5350	Abrasive Materials <u>Includes</u> Cloth; Papers; Powders; Abrasive Polishing Compounds; Metal Finishing Abrasives; Industrial Diamonds; Diamond Dust; Rouge.	A, AF
5355	Knobs and Pointers <u>Includes</u> Knobs, including Calibrated Knobs; Dials, Scale.	A, N, AF, D
5360	Coil, Flat, and Wire Springs <i>Note: Items specifically designed for specific use on or with specific individual types of equipment are classified in this class.</i>	A, N, AF, D
5365	Rings, Shims, and Spacers <u>Includes</u> Externally Threaded Rings; Keyed and Serrated Lock Rings; and Dee Rings. Shim Sets and Assortments. Spacers, Plates, Ring, Sleeve, and Stepped; Spacer Assortments and Sets. Bushings, Machine Thread; Plugs, Machine Thread. <u>Excludes</u> Piston Rings, Bearing and Bearing Closure Shims. Shim Stock. Electrical Cable Spacers.	A, N, AF, D
GROUP 54		
Prefabricated Structures and Scaffolding		
5410	Prefabricated and Portable Buildings <i>Note: This class includes only those buildings which are prefabricated or portable.</i> <u>Includes</u> Prefabricated Panels.	A, N, AF, D
5420	Bridges, Fixed and Floating <i>Note: This class includes only items specifically designed for specific use on or with fixed or floating bridges.</i> <u>Includes</u> Special Bridge Erection Equipment; Fixed Bridge Sets; Floating Bridge Sets; Bridge Floats and Pontoons. <u>Excludes</u> Floating Docks.	A, N, AF, D
5430	Storage Tanks <i>Note: Tanks which are designed for integral use with other equipment within a common housing or on a common base are excluded from this class and should be classified with the equipment with which used.</i> <u>Includes</u> Assembled and Unassembled Tanks for storage only; Inclosures for Pressure and Vacuum Tanks; Petroleum Bulk Storage Tanks. <u>Excludes</u> Boiler Drums; Domestic Water Storage Tanks.	A, N, AF, D
5440	Scaffolding Equipment and Concrete Forms <u>Includes</u> Prefabricated Concrete Placing Forms; Builders' Ladders and Stepladders. <u>Excludes</u> Chain Ladders; Rope Ladders.	A, AF, D
5445	Prefabricated Tower Structures <u>Includes</u> 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. <u>Excludes</u> Items of common hardware; Structural shapes not specifically fabricated as components of tower structures.	A, N, AF, D

5450	<p>Miscellaneous Prefabricated Structures</p> <p><u>Includes</u> Bleachers; Grandstands.</p> <p><u>Excludes</u> Floating Docks.</p>	A, N, AF, D
GROUP 55		
Lumber, Millwork, Plywood, and Veneer		
5510	<p>Lumber and Related Basic Wood Materials</p> <p><u>Includes</u> Dimensional Lumber; Flooring; Mine Timbers; Poles; Railroad Ties; Sawdust; Shavings; Wood Siding; Molding; Special Wood Turnings and Carvings.</p> <p><u>Excludes</u> Millwork; Plywood and Veneer.</p>	A, N, D
5520	<p>Millwork</p> <p><u>Includes</u> Door Frames; Doors; Window Frames; Window Sashes.</p> <p><u>Excludes</u> Molding; Special Wood Turnings and Carvings.</p>	A, D
5530	<p>Plywood and Veneer</p> <p><u>Includes</u> Plywood and Veneered Panels.</p>	A, N, D
GROUP 56		
Construction and Building Materials		
5610	<p>Mineral Construction Materials, Bulk</p> <p><u>Includes</u> Asphalt; Cinders; Gravel; Lime; Sand; Rough Dimension Stone, including Rubble; Cement; Ballast.</p> <p><u>Excludes</u> Block, Shaped; Brick.</p>	A, AF, D
5620	<p>Buildnig Glass, Tile, Brick, and Block</p> <p><u>Includes</u> Concrete Building Block; Glass Building Block; Cinder Block; Slag Block; Cut Stone; Cut and Polished Stone; Ceramic Floor and Wall Tile; Structural Glass; Architectural Terra Cotta; Concrete Slabs and Grilles.</p>	A, AF, D
5630	<p>Pipe and Conduit, Nonmetallic</p> <p><u>Includes</u> Concrete Pipe and Conduit; Clay Pipe and Conduit for underground use; Drain Tile; Nonmetallic Pipe Fittings for underground use.</p> <p><u>Excludes</u> Nonmetallic Pipe, Conduit, and Fittings for laboratory or electrical use; Hose and Tubing, Flexible Nonmetallic.</p>	A, AF, D
5640	<p>Wallboard, Building Paper, and Thermal Insulation Materials</p> <p><u>Includes</u> Paper Building Board; Ceiling Board; Gypsum Board; Insulating Board; Plasterboard; Soundproofing Board; Tar Paper; Wallpaper; Mineral Wool; Glass Wool Batts; Pipe Covering.</p> <p><u>Excludes</u> Electrical Insulation Materials.</p>	A, AF, D
5650	<p>Roofing and Siding Materials</p> <p><u>Includes</u> Roofing (all materials), including Sheet Metal; Roofing Felt; Roll Roofing; Roofing Tile; Shingles.</p> <p><u>Excludes</u> Tar Paper; Bulk Sheet Metal Roofing and Siding; Wood Siding.</p>	A, AF, D

5660	Fencing, Fences, and Gates <u>Includes</u> Wood and Metal Fences and Gates.	A, AF, D
5670	Architectural and Related Metal Products <u>Includes</u> Door Frames; Fixed Fire Escapes; Gratings, Grilles, Stair-cases; Window Sash; Gutters; Downspouts. <u>Excludes</u> Portable Fire Escapes.	A, AF, D
5680	Miscellaneous Construction Materials <u>Includes</u> Expanded Metal Lath; Airplane Landing Mats; Traction Mats.	A, AF, D
GROUP 58		
Communication, Detection, and Coherent Radiation Equipment		
<p><i>Note: 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 name 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.</i></p> <p><i>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 Chapter 3 of the FEDERAL MANUAL FOR SUPPLY CATALOGING.</i></p>		
5805	Telephone and Telegraph Equipment	A, N, AF, D
5810	Communications Security Equipment and Components	A, N, AF, D
5811	Other Cryptologic Equipment and Components	A, N, AF, D
5815	Teletype and Facsimile Equipment <u>Includes</u> Ticker Tape and Sigtot Equipment.	A, N, AF, D
5820	Radio and Television Communication Equipment, Except Airborne <u>Includes</u> Telemetering Equipment. <u>Excludes</u> Home Type Radio and Television Equipment.	A, N, AF, D
5821	Radio and Television Communication Equipment, Airborne <u>Includes</u> Telemetering Equipment.	A, N, AF, D
5825	Radio Navigation Equipment, Except Airborne <u>Includes</u> Loran Equipment; Shoran Equipment; Direction Finding Equip-ment.	A, N, AF, D
5826	Radio Navigation Equipment, Airborne <u>Includes</u> Loran Equipment, Shoran Equipment, Direction Finding Equip-ment.	A, N, AF, D

5830	Intercommunication and Public Address Systems, Except Airborne <u>Includes</u> Wired Audio Systems; Office Type Systems; Shipboard Systems; Tank Systems.	A, N, AF, D
5831	Intercommunication and Public Address Systems, Airborne	A, N, AF, D
5835	Sound Recording and Reproducing Equipment <u>Excludes</u> Phonographs, Home Type; Dictating Machines.	A, N, AF, D
5840	Radar Equipment, Except Airborne <i>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.</i>	A, N, AF, D
5841	Radar Equipment, Airborne <i>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.</i>	A, N, AF, D
5845	Underwater Sound Equipment <i>Note: This class excludes items specifically designed for fire control sonar systems.</i> Includes Sonar Equipment; Underwater Listening Equipment; Sonobuoys; Sonobuoy Launchers; Fathometers; Sofar Equipment.	A, N, AF, D
5850	Visible and Invisible Light Communication Equipment <i>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.</i> <u>Includes</u> Heliographs.	A, N, AF, D
5855	Night Vision Equipment, Emitted and Reflected Radiation <i>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. Included are items using (1) radiation projected from near infrared sources, (2) heat radiation emitted from an object, (3) amplification of low level night sky radiation as reflected from objects. Includes items having multi-application for purposes of fire control, and/or night observation, and/or detection. Excluded are optical sighting devices which incorporate both day and night viewing characteristics within an integral unit for fire control purposes, and non-night vision type items designed for use with guided missiles, communications or laboratory equipment. Also excluded from this class are items for which more specific classifications are suitable as prescribed by the structure and indexes of the FSC.</i> <u>Includes</u> Sighting, Observation, and Counter-measures Devices; Target Detectors; Locators and Viewers utilizing radiation projected from near infrared sources and/or utilizing low level natural radiation as reflected from an object(s). Also included are associated Radiation Sources, Image Converter and Intensifying Tubes; Power Supplies and other components specifically designed for Night Vision use; Sighting and Observation Devices; Target Detectors and Locators; Remote Viewing Systems utilizing heat radiation emitted from an object(s); associated Solid State Radiation Intensifiers; Photo-conductors; Heat Sensitive Tubes, Cells, and Elements, and other components specifically designed for Night Vision Equipment. Also includes items having the combined capability of utilizing both reflected and emitted radiation.	A, N, AF, D

	Excludes Optical sighting devices which incorporate both day and night viewing characteristics within an integral unit for fire control purposes, and non-night vision type items designed for use with guided missiles, communications, or laboratory equipment.	
5860	<p>Stimulated Coherent Radiation Devices, Components, and Accessories</p> <p><i>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 application, and having no other application, are to be included in this class. Assemblies or major systems containing such devices are excluded from this class.</i></p>	A, N, AF, D
5865	<p>Electronic Countermeasures, Counter-Countermeasures and Quick Reaction Capability Equipment</p> <p><i>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 therefor 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.</i></p>	A, N, AF, D
5895	<p>Miscellaneous Communication Equipment</p> <p><i>Note: This class includes miscellaneous communication equipment that is not classified in more specific classes. (See the "NOTE" for FSC Group 58.)</i></p> <p><u>Excludes</u> Electronic Countermeasure Equipment.</p>	A, N, AF, D
<p style="text-align: center;">GROUP 59</p> <p style="text-align: center;">Electrical and Electronic Equipment Components</p> <p><i>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.</i></p>		
5905	<p>Resistors</p> <p><u>Includes</u> Resistive Attenuators; Varistors; Resistive Ballast Tubes; Rheostats; Resistor Mounting Hardware; Thermistors.</p> <p><u>Excludes</u> Resistance Wire.</p>	A, N, AF, D
5910	<p>Capacitors</p> <p><u>Includes</u> Interference Filter Capacitors; Capacitor Mounting Hardware.</p> <p><u>Excludes</u> Semiconductor Devices and Associated Hardware.</p>	A, N, AF, D

5915	<p>Filters and Networks</p> <p><i>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).</i></p>	A, N, AF, D
5920	<p>Fuses and Lightning Arresters</p> <p><u>Includes</u> Fuseholders; Fuse Boxes; Fuse Posts; Fuse Links; Fuse Blocks; Current Limiters.</p>	A, N, AF, D
5925	<p>Circuit Breakers</p> <p><i>Note: This class includes circuit breakers with a voltage rating of 600 volts AC or 250 volts DC and below.</i></p> <p><u>Includes</u> Cutouts.</p> <p><u>Excludes</u> Relays.</p>	A, N, AF, D
5930	<p>Switches</p> <p><u>Includes</u> Rotary, Knife, Toggle, Push Button, Mercury, Thermostatic, and Differential Pressure Switches.</p> <p><u>Excludes</u> Switchgear.</p>	A, N, AF, D
5935	<p>Connectors, Electrical</p> <p><u>Includes</u> Plugs; Receptacles; Tube Sockets.</p> <p><u>Excludes</u> Semiconductor Device Sockets.</p>	A, N, AF, D
5940	<p>Lugs, Terminals, and Terminal Strips</p> <p><u>Includes</u> Binding Posts; Battery Clips; Stud Terminals; Test Clips.</p> <p><u>Excludes</u> Caps, Electrical; Clips, Electrical; and Contacts, Electrical.</p>	A, N, AF, D
5945	<p>Relays and Solenoids</p> <p><u>Includes</u> Electromagnetic Actuators.</p> <p><u>Excludes</u> Contactors.</p>	A, N, AF, D
5950	<p>Coils and Transformers</p> <p><i>Note: This class includes transformers with a kilovolt-ampere rating of 1 kva and below.</i></p> <p><u>Includes</u> Potential and Current Transformers; Chokes.</p> <p><u>Excludes</u> Constant Current Transformers; Ignition Coils.</p>	A, N, AF, D
5955	<p>Piezoelectric Crystals</p> <p><u>Includes</u> Processed Unmounted Crystals.</p>	A, N, AF, D
5960	<p>Electron Tubes and Associated Hardware</p> <p><u>Includes</u> Rectifying Tubes; Photoelectric Tubes; Electron Vibrator Tubes.</p> <p><u>Excludes</u> Transistors; Tube Socket; X-ray Tubes; Semiconductor Devices and Associated Hardware.</p>	A, N, AF, D
5961	<p>Semiconductor Devices and Associated Hardware</p> <p><u>Includes</u> Rectifying Crystals; Photoelectric Cells; Transistors; Semiconductor Device Sockets; Rectifiers, Semiconductor Device.</p> <p><u>Excludes</u> Microcircuits.</p>	A, N, AF, D
5962	<p>Microcircuits, Electronic</p> <p><i>Note: (1) A microcircuit is defined as follows: A small circuit having a high equivalent circuit element density, which is considered as a single</i></p>	A, N, AF, D

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 such as Adder-Subtractors, Buffers, Counters, Counter Adapters, Flip Flops, Half Adders, Shift and Half Shift Registers, Linear Amplifiers, Logic Gates, Logic Gate Expanders, Operational Amplifiers; Integrated Circuit Modules; Integrated Electronic Devices, Hybrid; Magnetic; Molecular; Opto-Electronic; and Thin Film.

Excludes Single Circuit Elements such as Capacitors, Diodes, Resistors, Semiconductor Devices and Assemblies, and Transistors; Printed Circuit Boards and Circuit Card Assemblies; Filters and Networks; Components; and Integrated Circuits peculiar to Night Vision Equipment classified in Group 58.

5965	Headsets, Handsets, Microphones and Speakers	A, N, AF, D
5970	Electrical Insulators and Insulating Materials <u>Includes</u> Tube, Knob, Cleat, Strain and Standoff Insulators; Feed Thru Insulators; Bead Insulators; Varnished Cambric Tape; Friction Tape.	A, N, AF, D
5975	Electrical Hardware and Supplies <u>Includes</u> Conduit; Raceways; Face Plates; Condulets; Outlet and Junction Boxes; Pole Line Hardware, not elsewhere classifiable.	A, N, AF, D
5977	Electrical Contact Brushes and Electrodes <u>Includes</u> Brushes for electrical rotating equipment; Carbon Stock for Brushes; Brush Arms and Holders; Lighting Electrodes. <u>Excludes</u> Anodes; Cathodes; Welding Electrodes.	A, N, AF, D
5985	Antennas, Waveguides, and Related Equipment <i>Note: Items specifically designed for specific use on or with specific individual types of equipment are generally excluded from this class and are to be classified in the same classes as their next higher assemblies. (Individual exceptions to this general rule (for example, Couplers) are indicated by condition code in the FSC Indexes.)</i> <u>Includes</u> Aerial, Mast, and Tower Equipment. <u>Excludes</u> Tower Structures.	A, N, AF, D
5990	Synchros and Resolvers <u>Excludes</u> Synchro Systems; Servo Mechanisms.	A, N, AF, D
5995	Cable, Cord, and Wire Assemblies: Communication Equipment <i>Note: This class includes only those types of cable, cord, and wire assemblies which are used on or with equipment and components covered by Groups 58 and 59. Sets of cables, cords, or wires or wiring harnesses are not classified in this class but are classified in the same classes as their next higher assemblies.</i>	A, N, AF, D
5999	Miscellaneous Electrical and Electronic Components <u>Includes</u> Permanent Magnets and Magnetostriction Elements; Caps, Clips, and Contacts, Electrical.	A, N, AF, D

GROUP 61

Electric Wire, and Power and Distribution Equipment

6105	Motors, Electrical <u>Excludes</u> Starting Motors for Engines.	A, N, AF, D
6110	Electrical Control Equipment <i>Note: This class includes circuit breakers with a voltage rating above 600 volts AC or 250 volts DC.</i> <u>Includes</u> Contactors; Motor Controllers; Power Servomechanisms; Switchgear; Voltage Regulators. <u>Excludes</u> Automatic Pilot Mechanisms; Relays; Resistors.	A, N, AF, D
6115	Generators and Generator Sets, Electrical <u>Includes</u> Engine, Turbine, Wind, and Hand Driven Generator Sets and Auxiliary Aircraft Generators. <u>Excludes</u> Motor-Converters; Motor-Generator Sets; Engine Generators; Engine Accessory Generators.	A, N, AF, D
6116	Fuel Cell Power Units, Components, and Accessories <i>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.</i> <u>Includes</u> 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. <u>Excludes</u> Primary Batteries (Class 6135); Secondary Batteries (Class 6140); Generators and Generating Sets (Class 6115); and items for which more suitable classes are specifically prescribed by the indexes and structure of the FSC.	A, N, AF
6120	Transformers: Distribution and Power Station <i>Note: This class includes transformers with a kilovolt-ampere rating above 1 kva.</i> <u>Excludes</u> Potential and Current Transformers.	A, N, AF, D
6125	Converters, Electrical Rotating <i>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 (class 6115).</i> <u>Includes</u> Complete Battery Charging Equipment, Rotating; Dynamotors; Motor-Converters; Motor-Generator Sets; Phase Converters; Rotating Equipment; Synchronous Converters. <u>Excludes</u> Nonrotating Equipment.	A, N, AF, D
6130	Converters, Electrical, Nonrotating <i>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). Excluded from this class are rectifying crystals (Class 5961) and transformers (Classes 5950 and 6120).</i>	A, N, AF, D

	<p><u>Includes</u> Complete Battery Charging Equipment, Nonrotating; Power Supplies, Multiapplication.</p> <p><u>Excludes</u> Rectifying Tubes; Rotating Equipment; Semiconductor Devices and Associated Hardware.</p>	
6135	<p>Batteries, Primary</p> <p><u>Includes</u> Cells and Dry Batteries; Nuclear Batteries.</p>	A, N, AF
6140	<p>Batteries, Secondary</p> <p><i>Note: Battery fixtures, such as boxes, covers, racks, retainers, and trays, when specifically designed for specific use on or with individual types of equipment, are excluded from this class and are to be classified in the same classes as their next higher assemblies or in applicable components classes (such as in Group 25), whichever is prescribed by the structure or indexes of the FSC.</i></p> <p><u>Includes</u> Rechargeable Cells and Batteries.</p>	A, N, AF, D
6145	<p>Wire and Cable, Electrical</p> <p><i>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.</i></p> <p><u>Includes</u> Insulated and Noninsulated, such as Antenna Wire, Coaxial Cable, Fuse and Resistance Wire, Magnet Wire.</p> <p><u>Excludes</u> Radio Frequency Transmission Line; Waveguides and Associated Hardware.</p>	A, N, AF, D
6150	<p>Miscellaneous Electric Power and Distribution Equipment</p> <p><u>Includes</u> Appliance and Extension Cords; Electric Power and Distribution Cable with Attachments, Multiapplication; Common Components of Electrical Rotating Equipment, such as End Bells and Frames.</p>	A, N, AF, D
GROUP 62		
Lighting Fixtures and Lamps		
6210	<p>Indoor and Outdoor Electric Lighting Fixtures</p> <p><u>Includes</u> Airport, Railroad Platform, Stadium, and Street Lighting Fixtures.</p> <p><u>Excludes</u> Nonelectrical Outdoor Fixtures; Signal Fixtures; Nonelectrical Indoor Fixtures.</p>	A, N, AF, D
6220	<p>Electric Vehicular Lights and Fixtures</p> <p><u>Includes</u> Automotive, Marine, Railroad, and Aircraft Lights and Fixtures.</p> <p><u>Excludes</u> Nonelectrical Vehicular Fixtures.</p>	A, N, AF, D
6230	<p>Electric Portable and Hand Lighting Equipment</p> <p><u>Includes</u> Floodlights; Searchlights; Extension Lights.</p> <p><u>Excludes</u> Nonelectrical Portable and Hand Lighting Equipment; Signal and Alarm Equipment.</p>	AF, D
6240	<p>Electric Lamps</p> <p><u>Includes</u> Fluorescent Lamps; Incandescent Lamps, Large and Miniature; Mercury Lamps; Sodium Lamps.</p>	AF, D
6250	<p>Ballasts, Lampholders, and Starters</p>	AF, D
6260	<p>Nonelectrical Lighting Fixtures</p> <p><u>Includes</u> Lanterns, Nonelectrical; Hand and Portable Carbide Lamps; Candles.</p>	AF, D

GROUP 63

Alarm and Signal Systems

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|-------------|---|-----------------|
| 6310 | Traffic and Transit Signal Systems
<u>Excludes</u> Railroad Signals. | AF |
| 6320 | Shipboard Alarm and Signal Systems | N, AF |
| 6330 | Railroad Signal and Warning Devices
<u>Includes</u> Railroad Gates; Flasher Lights; Block Signals.
<u>Excludes</u> Semaphore Flag Signals. | AF |
| 6340 | Aircraft Alarm and Signal Systems
<u>Includes</u> 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.
<u>Excludes</u> Aircraft Engine Oil and Fuel Warning Devices. | A, N, AF |
| 6350 | Miscellaneous Alarm and Signal Systems
<u>Includes</u> Anti-Intrusion Alarm Systems; Foghorns; Gongs; Chimes; Bells; Burglar Alarm Systems; Fire Alarms; Police Alarm Systems; Sounding Devices; Manual Gas Alarms; Landing Wands.
<u>Excludes</u> Loran; Radar; Sonar; Engine Oil and Fuel Warning Devices; Aircraft Oxygen Warning Devices. | AF, D |

GROUP 65

Medical, Dental, and Veterinary Equipment and Supplies

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|-------------|---|----------|
| 6520 | Dental Instruments, Equipment and Supplies
<u>Includes</u> Dental Engines; Dental Laboratory Equipment; Operating Chairs; Orthodontic Appliances; Teeth; Dental Metals; Dental Abrasives; Dental Laboratory Furniture. | D |
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GROUP 66

Instruments and Laboratory Equipment

Note: Infrared assemblies, subassemblies, and components designed specifically for use as or with instruments and laboratory equipment are classified in the appropriate classes of this group.

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|-------------|--|-----------------|
| 6605 | Navigational Instruments
<u>Includes</u> Azimuths; Sextants; Octants; Compasses; Plotting Boards; Underwater Log Equipment; Air Position Indicators; Drift Meters. | A, N, AF |
| 6610 | Flight Instruments
<u>Includes</u> Air Speed Indicators; Rate of Climb Indicators; Bank and Turn Indicators; Pitot Tubes; Gyro Horizon Indicators; Attitude Gyro Indicators.
<u>Excludes</u> Navigational Instruments. | A, N, AF |
| 6615 | Automatic Pilot Mechanisms and Airborne Gyro Components
<i>Note: Included in this class are gyro components of guided missiles. Excluded are complete gyro mechanisms and nonairborne gyro components, both of which are classified in the same classes as their next higher assemblies.</i>
<u>Includes</u> Automatic Pilot Regulators; Directional, Vertical, Bank and | A, N, AF |

	<p>Turn, and Hydraulic Surface Gyro Controls; Airborne and Shipborne Automatic Pilot Mechanisms; Helicopter Automatic Stabilization Equipment.</p> <p><u>Excludes</u> Automatic Pilot Training Devices; Automatic Pilot Mechanisms, Guided Missile.</p>	
6620	<p>Engine Instruments</p> <p><i>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.</i></p> <p><u>Includes</u> 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.</p>	A, N, AF
6625	<p>Electrical and Electronic Properties Measuring and Testing Instruments</p> <p><i>Note: This class includes all "basic" types of electrical and electronic test instruments, such as ammeters, voltmeters, ohmmeters, multi-meters, 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.</i></p> <p><i>This class includes communications test equipment, infrared test equipment designed for communication, and night vision maintenance and test specialized equipment.</i></p> <p><u>Includes</u> 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.</p> <p><u>Excludes</u> Radiac Equipment; Test instruments which are integral (built-in) components of operational equipment.</p>	A, N, AF
6630	<p>Chemical Analysis Instruments</p> <p><u>Includes</u> Acidity (pH) Meters; Gas Analyzers. Alkalinity Measuring Instruments; Colorimeters.</p> <p><u>Excludes</u> Gas Detecting Equipment; Manual Gas Alarms.</p>	A, N, AF, D
6635	<p>Physical Properties Testing Equipment</p> <p><u>Includes</u> Hardness Testers; Industrial X-ray Machines.</p>	A, N, AF, D
6636	<p>Environmental Chambers and Related Equipment</p> <p><i>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. Excluded from this class are items for which more specific classifications are suitable as prescribed by the structure and indexes of the FSC.</i></p> <p><u>Includes</u> Chambers; Wind Tunnels; Enclosures specifically designed to simulate an environmental condition; Weatherometers; Fadeometers; Specially designed equipment and components exclusively related to environmental chambers.</p> <p><u>Excludes</u> General purpose prefabricated buildings, chambers, panels, and components; Controlled Environmental Conditioning Kits and Sets; Baths; Ovens; Kilns; Radiosonde Baseline Check Sets; Divers Recompression Chambers; Altitude Training Decompression Chambers; and chambers used as training devices. Also excluded from this class are</p>	A, N, AF

	Checkout and Test Equipment; Chemical Analysis Instruments; Electrical and Electronic Properties Measuring and Testing Instruments; Meteorological Instruments.	
6640	<p>Laboratory Equipment and Supplies</p> <p><u>Includes</u> 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.</p> <p><u>Excludes</u> Instruments covered by other classes in Group 66; Dental Laboratory Equipment; Laboratory Scales and Balances.</p>	A, N, AF, D
6645	<p>Time Measuring Instruments</p> <p><u>Includes</u> Clocks; Job Recording Devices; Time Recorders; Time Stamps; Watch and Clock Movements; Watches.</p>	A, N, AF, D
6650	<p>Optical Instruments</p> <p><i>Note: Optical instruments which are designed for integral use with other assemblies or equipment, such as periscopes for submarines and optical devices for use in fire control equipment, are excluded from this class and should be classified in the same classes as their next higher assemblies. Night Vision Equipments are classified in appropriate classes of Group 58.</i></p> <p><u>Includes</u> Binoculars; Magnifiers; Microscopes; Periscopes; Telescopes.</p> <p><u>Excludes</u> Fire Control Instruments, Optical; Surveying Instruments, Optical; Photogrammetric Instruments; Octants and Sextants; Optical Instruments Integrated with Fire Control Equipment; Ophthalmological Instruments.</p>	A, N, AF
6655	<p>Geophysical and Astronomical Instruments</p> <p><u>Includes</u> Geodetic Instruments; Oceanographic Instruments; Seismographic Instruments.</p> <p><u>Excludes</u> Telescopes.</p>	A, N, AF, D
6660	<p>Meteorological Instruments and Apparatus</p> <p><u>Includes</u> Meteorological Balloons; Radiosonde Sets; Radarsonde Sets.</p>	A, N, AF, D
6665	<p>Hazard-Detecting Instruments and Apparatus</p> <p><u>Includes</u> Radiac Equipment; Gas Detecting Equipment; Land Mine Detecting Equipment.</p> <p><u>Excludes</u> Manual Gas Alarms.</p>	A, N, AF
6670	<p>Scales and Balances</p> <p><u>Includes</u> Coin Operated, Household, Industrial, Postal, and Laboratory Scales and Balances.</p>	A, N, AF, D
6675	<p>Drafting, Surveying, and Mapping Instruments</p> <p><u>Includes</u> Drawing Instruments; Drafting Tools; Engineering and Architectural Scales; Levels; Transits; Photogrammetric Instruments; Astrolabes; Level Rods; Plane Tables; Surveying Altimeters; Theodolites.</p> <p><u>Excludes</u> Surveyors' Tapes.</p>	A, N, AF, D
6680	<p>Liquid and Gas Flow, Liquid Level, and Mechanical Motion Measuring Instruments</p> <p><u>Includes</u> Liquid Level Float Instruments; Revolution Counters; Speedometers; Rotation Measuring Instruments and Apparatus; Oxygen Flow Indicators; Tachometers, including Engine Tachometers.</p>	A, N, AF, D

	<u>Excludes</u> Combination Instruments; Meteorological Instruments; Automatic Control Valves.	
6685	Pressure, Temperature, and Humidity Measuring and Controlling Instruments <u>Includes</u> Thermometers, including Engine Thermometers; Pressure Gages; Thermocouple Leads; Resistance Bulbs. <u>Excludes</u> Clinical Thermometers; Thermostatic and Differential Pressure Switches; Meteorological Instruments.	A, N, AF, D
6695	Combination and Miscellaneous Instruments <u>Includes</u> Flow-Pressure Instruments, Taximeters; Dynamometers. <u>Excludes</u> Dental, Medical, Surgical, and Veterinary Instruments.	A, N, AF, D
GROUP 67		
Photographic Equipment		
6710	Cameras, Motion Picture <u>Includes</u> Aerial and Mapping Cameras. <u>Excludes</u> Television Cameras.	A, N, AF, D
6720	Cameras, Still Picture <u>Includes</u> Aerial, Mapping, Microfilm, Photocopy, and Studio Cameras. <u>Excludes</u> X-Ray Cameras.	A, N, AF, D
6730	Photographic Projection Equipment <u>Includes</u> Screens; Viewers; Photomap Projectors. <u>Excludes</u> Cameras.	A, N, AF, D
6740	Photographic Developing and Finishing Equipment <u>Includes</u> Editing Equipment; Enlargers; Driers; Pressers; Printers; Washers.	N, AF, D
6750	Photographic Supplies <u>Includes</u> Sensitized Paper; Special Purpose Photographic Chemicals; Unprocessed Film; Photoflash Lamps. <u>Excludes</u> X-Ray Film.	AF, D
6760	Photographic Equipment and Accessories <u>Includes</u> Light Meters; Tripods; Filters; Range-finders; Photographic Floodlight Fixtures; Lenses; Specialized Photographic Test Equipment. <u>Excludes</u> Lamps (Bulbs); Photoflash Lamps.	N, AF, D
6770	Film, Processed <u>Includes</u> Motion Picture Film, Silent and Sound; Still Picture Film. <u>Excludes</u> X-Ray Film; Training and Educational Film; Processed Microfilm.	A, N, AF, D
6780	Photographic Sets, Kits, and Outfits	N, AF, D

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 non-chemical names such as SPOT REMOVER: INSECTICIDE, ROACH: and ANTI-FREEZE are generally classified according to use, in classes other than 6810, whereas corresponding chemical compounds, such as carbon tetrachloride, chlordane, and ethylene glycol are classified in 6810. Medicinal chemicals are generally classified in 6505 — Drugs, Biologicals, and Official Reagents. Excluded from this group are liquid chemicals designed exclusively for use as propellant fuels and oxidizers.

6810	Chemicals <u>Includes</u> 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. <u>Excludes</u> Medicinal Chemicals; Gases; Foundry Dextrines.	A, N, AF, D
6820	Dyes <u>Includes</u> Household Tints.	A, N, AF, D
6830	Gases: Compressed and Liquefied <u>Includes</u> Fuel Gases. <u>Excludes</u> Military Chemical Gases; Medical Gases; Empty Gas Cylinders and their caps, valves, and valve spare parts.	A, N, AF, D
6840	Pest Control Agents and Disinfectants <u>Includes</u> Insect Repellents; Fungicides; Insecticides; Rodenticides; Weed Killers. <u>Excludes</u> Personal Deodorants.	A, N, AF, D
6850	Miscellaneous Chemical Specialties <u>Includes</u> Antifogging Compounds; Wetting Agents; Etching and Fountain Solutions for Lithographing; Blanket Repair Solutions for Lithographing; Antifreeze.	A, N, AF, D

GROUP 69

Training Aids and Devices

6910	Training Aids <u>Includes</u> 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, Sectionalized Ammunition Only; Training Equipment normally used in classroom training. <u>Excludes</u> Drill, Dummy, Exercise, or Practice or Simulated Ammunition and Weapons.	A, N, AF
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6920	<p>Armament Training Devices</p> <p><u>Includes</u> Bombing Trainers; Gunnery Trainers; Tow Targets; Gunnery Targets; Guided Missile Training Sets.</p> <p><u>Excludes</u> Target Drones; Drones for such uses as training, surveillance, missile evaluation, and photographic reconnaissance; Atomic Ordnance Training Devices; Training Aids; Drill, Dummy, Exercise, Practice or Simulated Ammunition and Weapons.</p>	A, N, AF
6930	<p>Operational Training Devices</p> <p><u>Includes</u> 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.</p> <p><u>Excludes</u> Training Aids.</p>	A, N, AF
6940	<p>Communication Training Devices</p> <p><u>Includes</u> Supersonic Radar Trainers; Navigational Radar Trainers; Search and Detecting Radar Trainers; Code Practice Equipment.</p> <p><u>Excludes</u> Training Aids.</p>	A, N, AF

GROUP 70

General Purpose Automatic Data Processing Equipment, Software, Supplies and Support Equipment

Note: GENERAL PURPOSE ADPE — Automatic data processing devices and/or a collective set of these devices regardless of use, size, capacity or price that can be applied to the solution or processing of a variety of problems, or tasks and are not specially designed, as opposed to configured, for any restricted class of problems, or tasks. It includes:

- a. Digital, analog or hybrid computers.*
- b. Data input/output devices and accessorial equipment such as plotters, source data automation recording equipment, computer output to microfilm equipment (COM), and computer performance evaluation equipment (hardware monitors), either cable connected, wire connected, or self-standing and whether selected or acquired with a computer or separately.*
- c. Punched card equipment (PCE), acquired with or independently of digital, analog, or hybrid computers.*

Also includes ADP softwares and supplies, such as, but not limited to, electronic data processing tapes, disks, cannisters, reels, control panels and wires, cable assemblies, cabinets, tape storage and safes and racks peculiar to ADP operations. Excludes Special Purpose ADPE — ADPE devices and/or a collective set of these devices, regardless of size or capacity specially designed to perform a predetermined set or series of computational functions only, and which may be required to meet specific physical or environmental conditions, and which are physically or functionally integral to higher order system.

7010	<p>ADPE Configuration</p> <p><i>Note: A group of analog, digital, or hybrid electronic or electromechanical devices that are interconnected and programmed 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 (computer) and the necessary input/output devices, accessorial devices, measurement devices, and software required to perform the desired objectives. Also includes units in which input/output devices, central processing units (CPU), and/or accessorial devices are integral parts.</i></p>	A, N, AF, D
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7020	ADP Central Processing Unit (CPU, Computer), Analog <i>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.</i>	A, N, AF, D
7021	ADP Central Processing Unit (CPU, Computer), Digital <i>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.</i>	A, N, AF, D
7022	ADP Central Processing Unit (CPU, Computer), Hybrid <i>Note: Hybrid refers to a combination of analog and digital capability as defined in Classes 7020 and 7021 with conversion capability required for intercommunication.</i>	A, N, AF, D
7025	ADP Input/Output and Storage Devices <i>Note: This class includes devices to control and transfer information to and from a CPU. The input device is used for transferring data and instructions into a CPU. The output device is used to transfer results or processing by the CPU onto printed forms, punched cards, and/or magnetic media. Input/output devices combine the above functions in the same device. This class also includes data transmission terminals, batch terminals and display terminals which are specially designed or modified to be used in conjunction with digital, analog or hybrid CPUs. It includes modems when they are integral to the terminal. It also includes storage devices in which data can be inserted, retained and retrieved for later use.</i>	A, N, AF, D
7030	ADP Software <i>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.</i> <u>Includes</u> System programs, such as operating systems, assemblers, compilers, executive routines, interpreter, translators; utility programs, such as soft/merge programs, media conversion, maintenance diagnostic programs; and application programs, such as payroll, inventory control and engineering analysis programs. <u>Excludes</u> Software designed to satisfy the unique requirements of a particular user. Also excludes operating manuals, programmers manuals, circuit diagrams; maintenance procedures and other engineering data properly classified in FSC Group 76.	A, N, AF, D
7035	ADP Accessorial Equipment <i>Note: This class includes various units or devices and associated control units that are used in combination or conjunction with the ADPE configuration but are not part of the configuration itself. Accessorial equipment is considered to be a component, device or unit that is related directly to and essential in the operation of ADPE. Included in this class are complete units and components of related general purpose accessorial equipment which are used as part of a system such as weapon system, control system, missile system, communication system or navigational system. Also included are accessorial control systems and components used in connection with automatic machine tool processing operations in which flow, pressure, temperature, or similar factors are controlled by instrument regulations in automatic machine tool operation.</i>	A, N, AF, D

7040	<p>Punched Card Equipment</p> <p><u>Includes</u> Collating machines, key punch machines; tabulating machines; verifier; reproducer; summary punch, sorter; interpreter.</p> <p><u>Excludes</u> Card actuated machines when cable connected to a central processing unit.</p>	A, N, AF, D
7045	<p>ADP Supplies and Support Equipment</p> <p><i>Note: This class includes consumable supplies, and support equipment not classifiable elsewhere. ADP supplies include paper, tabulating machine, continuous flat fold; paper, tabulating machine, sheet; seal bands, tape, ADP; carrying case, tape. ADP support equipment includes magnetic tape testing, certifying, and cleaning equipment; disk pack testing, certifying and cleaning equipment; tape equipment, re-winders, splicers, and spoolers and card reconditioners.</i></p> <p><u>Includes</u> Consumable supplies, such as paper, tabulating machine, continuous flat fold; paper, tabulating machine, sheet; seal bands, tape, ADP; empty reels and hubs, tape, ADP; canisters, tape, ADP; carrying cases, tape, ADP. Also included are support equipments such as magnetic tape testing, certifying and cleaning equipment; disk pack testing, certifying and cleaning equipment; tape equipment, winders, splicers, and card reconditioners.</p>	A, N, AF, D
7050	<p>ADP Components</p> <p><i>Note: This class includes ADP Components 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.</i></p>	A, N, AF, D
<p>GROUP 74</p> <p>Office Machines, Visible Record Equipment, and Data Processing Equipment</p>		
7410	<p>Punched Card System Machines</p> <p><u>Includes</u> Key Punch Machines; Sorting Machines; Tabulating Machines.</p>	AF
7420	<p>Accounting and Calculating Machines</p> <p><u>Includes</u> Accounting Machines; Adding Machines.</p> <p><u>Excludes</u> Punched Card System Machines; Automatic Data Processing Equipment.</p>	AF
7430	<p>Typewriters and Office Type Composing Machines</p>	AF
7450	<p>Office Type Sound Recording and Reproducing Machines</p> <p><u>Includes</u> Dictating Machines; Transcribing Machines; Combination Dictating and Transcribing Machines.</p> <p><u>Excludes</u> Communication Type Sound Recording and Reproducing Machines.</p>	AF
7460	<p>Visible Record Equipment</p> <p><u>Includes</u> 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.</p>	AF
7490	<p>Miscellaneous Office Machines</p> <p><u>Includes</u> Addressing Machines; Check Handling Machines; Coin Counting Machines; Mailing Machines; Currency Handling Machines.</p> <p><u>Excludes</u> Pencil Sharpeners; Staplers, Office Type; Duplicating Equipment.</p>	AF

GROUP 75

Office Supplies and Devices

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|-------------|---|--------------|
| 7510 | Office Supplies
<u>Includes</u> Crayons; Erasers; File Holders; Writing Ink; Printing Ink; Paper Fasteners; Pencils; Penholders and Pen Points; Rulers, Office Type; Art Supplies; Tape, pressure sensitive, adhesive.
<u>Excludes</u> Office Devices; Fountain Pens; Artists' Brushes; Paper Stationery; Record Forms; Mechanical Pencils. | AF |
| 7520 | Office Devices and Accessories
<u>Includes</u> Copyholders; Fountain Pens and Pen Desk Sets; Pencil Sharpeners; Paper Punches; Staplers, Office Type; Artists' Accessories, such as Easels, Airbrushes; Slide Rules. | AF |
| 7530 | Stationery and Record Forms
<u>Includes</u> Business Forms; Record Books; Surveyors' Computation Forms; Electric Accounting Machine (EAM) Cards; Forms approved for use within individual government activities.
<u>Excludes</u> Standard forms approved for government-wide use. | AF, D |
| 7540 | Standard Forms
<u>Includes</u> 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).
<u>Excludes</u> Forms approved for use within individual government activities. | AF |

GROUP 76

Books, Maps, and Other Publications

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|-------------|---|--------------------|
| 7610 | Books and Pamphlets
<u>Includes</u> Technical and Nontechnical Books and Pamphlets; Regulations; Instruction Manuals; Technical Orders.
<u>Excludes</u> Sheet and Book Music; Periodicals; Bibles. | A, N, AF, D |
| 7650 | Drawings and Specifications
<u>Includes</u> Federal, Military, and Departmental Specifications. | A, N, AF |

GROUP 80

Brushes, Paints, Sealers, and Adhesives

- | | | |
|-------------|---|-------------|
| 8010 | Paints, Dopes, Varnishes, and Related Products
<u>Includes</u> Water Paints; Oil Paints; Driers; Wood and Wall Fillers; Lacquers; Paint Sealers; Pigments for Coloring; Stains; Turpentine; Paint Removers.
<u>Excludes</u> Acetone. | A, N |
| 8020 | Paint and Artists' Brushes
<u>Excludes</u> Airbrushes. | A |

8030	<p>Preservative and Sealing Compounds</p> <p><u>Includes</u> Fire Resistant Compounds; Water Resistant Compounds; Weather Resistant Compounds; Belt Dressing; Antisize Compounds; Calking and Glazing Compounds; Putties.</p> <p><u>Excludes</u> Food Preservative Compounds.</p>	A, N
8040	<p>Adhesives</p> <p><u>Includes</u> Glue; Mucilage; Sizes; Adhesive Cements.</p>	N
<p>GROUP 81</p> <p>Containers, Packaging, and Packing Supplies</p> <p><i>Note: A chest, case, box, roll, bag, or other container, when specifically designed for the 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.</i></p>		
8105	<p>Bags and Sacks</p> <p><u>Includes</u> Shipping and Protective Envelopes; Liners for Bags and Sacks; Textile and Paper Laminated Shipping Bags; Closures for Bags and Sacks.</p>	AF, D
8110	<p>Drums and Cans</p> <p><u>Includes</u> Barrels; Kegs; Shipping and Storage Pails; Collapsible Tubes; Mailing and Filing Tubes; Closures for Drums and Cans.</p>	AF, D
8115	<p>Boxes, Cartons and Crates</p> <p><u>Includes</u> Shoe Boxes; Beer Cases; Pill Boxes; Piano Cases; Engine Boxes; Bombsight Boxes.</p> <p><u>Excludes</u> 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 Containers" for components of aircraft, space vehicles, automotive vehicles, ships, ground communication equipment.</p>	A, AF, D
8120	<p>Commercial and Industrial Gas Cylinders</p> <p><i>Note: This class includes empty commercial and industrial gas cylinders and their caps, valves, and valve spare parts.</i></p> <p><u>Excludes</u> 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.</p>	N, AF, D
8125	<p>Bottles and Jars</p> <p><u>Includes</u> Shipping Jugs and Carboys; Ampoules.</p>	AF, D
8130	Reels and Spools	AF
8135	Packaging and Packing Bulk Materials	AF

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; Aluminum Foil, other than for food handling and processing.

Excludes Adhesives.

8140

Ammunition Boxes, Packages, and Special Containers

A, N, AF

Note: This class includes only containers and fittings which are specifically designed for the storage, handling, and shipping of ammunition or 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

AF

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

N

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.

*** 8340**

Tents and Tarpaulins

D

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.

* Subject to U.S. Statutory restrictions on procurement of textiles.

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.

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|---------------|---|----------|
| * 8405 | Outerwear, Men's

<u>Includes</u> Uniforms, Military and Nonmilitary; Civilian Outerwear; Headwear; Work Clothing (Ordinary Nonsafety); Shirts; Trousers; Coats.

<u>Excludes</u> Items included in other classes such as Special Purpose Clothing; Helmets, Steel and Plastic; Safety Clothing; Handwear; Footwear. | N |
| * 8410 | Outerwear, Women's

<u>Includes</u> Uniforms, Military and Nonmilitary; Civilian Outerwear; Headwear; Work Clothing (Ordinary Nonsafety); Shirts; Skirts; Blouses.

<u>Excludes</u> Items included in other classes such as Special Purpose Clothing; Helmets, Steel and Plastic; Safety Clothing; Handwear; Footwear. | N |
| * 8415 | Clothing, Special Purpose

<i>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.</i>

<u>Includes</u> 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.

<u>Excludes</u> Sporting and Athletic Gloves; Athletic Footwear; Safety Footwear; Personal Armor; Special Hospital and Surgical Clothing.

<u>Excludes</u> 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. | N |
| 8465 | Individual Equipment

<u>Includes</u> only Snowshoes, Trail, Metal; Canteen, Water, Plastic and Cup, Water, Canteen, Steel. | D |
| 8470 | Armor, Personal

<u>Includes</u> Clothing specially designed for use as personal armor.

<u>Excludes</u> 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. | N |

GROUP 93

Nonmetallic Fabricated Materials

- | | | |
|-------------|--|-----------|
| 9310 | Paper and Paperboard

<u>Includes</u> Book Paper Stock; Newsprint; Paperboard; Bulk Paper Materials.

<u>Excludes</u> Corrugated Paper; Wrapping Paper; Building Board; Insulating Board; Stationery; Construction Paper; Paper Towels; Facial Tissues; Blank Books; Containers; Shipping and Identification Tags. | AF |
|-------------|--|-----------|

9320	Rubber Fabricated Materials Includes Natural and Synthetic Rubber Fabricated Materials, such as Rubber Sheets, Structural Rubber Shapes, Strips.	A, N, AF, D
9330	Plastics Fabricated Materials <u>Includes</u> Cellulose Acetate and other Plastics; Bars, Rods, Sheets, and Strips.	A, N, AF, D
9340	Glass Fabricated Materials <u>Includes</u> Glass Rods, Bars, and Tubing; Optical Glass Blanks. <u>Excludes</u> Insulators; Ophthalmic Glass Blanks.	AF, D
9350	Refractories and Fire Surfacing Materials	A, N, AF, D
9390	Miscellaneous Fabricated Nonmetallic Materials <u>Includes</u> 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.	AF, D
GROUP 95		
Metal Bars, Sheets, and Shapes		
9505	Wire, Nonelectrical, Iron and Steel <u>Excludes</u> Wire having electrical resistivity or conductivity rating; Baling Wire.	A, N, AF, D
9510	Bars and Rods, Iron and Steel <u>Excludes</u> Muck Bar; Rods for Wire; Sheet Bar.	A, N, AF, D
9515	Plate, Sheet, and Strip: Iron and Steel <u>Includes</u> Armor Plate; Black Plate; Floor Plate; Perforated Sheet and Strip. <u>Excludes</u> Bale Ties; Baling Bands; Hoops.	A, N, AF, D
9520	Structural Shapes, Iron and Steel <u>Includes</u> Bar Size Shapes (under 3"); Metal Piles and Piling.	A, N, AF, D
9525	Wire, Nonelectrical, Nonferrous Base Metal <u>Excludes</u> Wire having electrical resistivity or conductivity rating.	A, N, AF, D
9530	Bars and Rods, Nonferrous Base Metal	A, N, AF, D
9535	Plate, Sheet, Strip, and Foil: Nonferrous Base Metal <u>Includes</u> Leaf; Perforated Sheet and Strip. <u>Excludes</u> Aluminum Foil for food handling and processing.	A, N, AF, D
9540	Structural Shapes, Nonferrous Base Metal <u>Includes</u> Angles; Channels; Tees; Zees.	A, N, AF, D
9545	Plate, Sheet, Strip, Foil, and Wire: Precious Metal <u>Includes</u> Bars; Leaf; Ribbon; Rods; Tubing. <u>Excludes</u> Precious Metals for dental use.	A, N, AF, D

GROUP 96

Ores, Minerals, and Their Primary Products

9610	Ores <u>Includes</u> Bauxite; Ferrous Ores; Lead Ores; Precious Metal Ores; Radioactive Metal Ores; Zinc Ores.	N, AF
9620	Minerals, Natural and Synthetic <u>Includes</u> Clays and other Earths; Mica; Asbestos; Crude Petroleum; Graphite. <u>Excludes</u> Gravel; Sand; Abrasives; Foundry Bentonite Clay; Refractory Clays.	N, AF, D
9630	Additive Metal Materials and Master Alloys <u>Excludes</u> Fuel Additives	N, AF
9640	Iron and Steel Primary and Semifinished Products <u>Includes</u> Ingots; Pigs; Billets; Blooms; Muck Bar; Rods for Wire; Sheet Bar; Skelp; Tube Rounds.	N, AF
9650	Nonferrous Base Metal Refinery and Intermediate Forms <u>Includes</u> Ingots; Slabs.	N, AF
9660	Precious Metals Primary Forms <u>Includes</u> Bullion; Ingot. <u>Excludes</u> Precious Metals for dental use.	N, AF
9670	Iron and Steel Scrap	N, AF
9680	Nonferrous Metal Scrap	N, AF

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NOTES

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