

**END USE GUIDE FOR REPORTING SHIPMENTS
OF SEMI-FABRICATED ALUMINUM PRODUCTS
FOR 2016**



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PREFACE

The End Use Guide was developed by the Statistical and Market Research Committee (SMRC) and is the official manual for implementing the End Use Reporting System. It is not intended to be a complete list of all aluminum end uses but rather a classification system for the Association's End Use report series. It is designed to provide reporting companies with guidelines for uniform and systematic coding of aluminum product shipments. The guide itself is under continual review by the SMRC to make the distinction among end uses clearer and more meaningful.

Data reported in code "0800: Shipments to Distributors and Jobbers" should be reported directly into the end use serviced by your distributors, if known or if can be reasonably estimated. For example, if the distributor services the aircraft market, the shipment should be reported in code "0204: Aircraft & Helicopters." If the end use is not known, you should use your best estimate for the markets serviced by your distributors. Data should only be reported in code 0800 when it is not possible to identify or to reasonably estimate distributor markets.

We continue to survey for total shipments to distributors in the end use survey on a separate tab.

End Use Reporting System - Purpose

The End Use Reporting System is designed to provide survey participants with sufficient and significant data about markets for their aluminum products on a useful and regular basis in order that a company may:

- o) Have better knowledge of the major markets and end uses to which it sells or may wish to sell its aluminum products.
- o) Observe past trends and forecast future demand for aluminum products.
- o) Measure its company performance in each major market and end use compared to the industry.
- o) Plan for future requirements of raw materials, products, facilities, personnel, funds, market research and development.

End Use Reporting System - Philosophy

The determination of the level of end use that is to be reported is a complex process aimed at providing data that are most useful to survey participants. The level can be an ultimate end use such as autos, aircraft, or houses, or it can be an intermediate end use such as windows, roofing, fin stock, air conditioning or motors. Ideally the End Use Reporting System should classify shipments to ultimate end uses, while at the same time retaining sufficient flexibility to utilize intermediate stages of classification where considered advisable. In each specific instance the decision is a compromise agreement among members of the Association as represented by the SMRC.

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OVERVIEW

The End Use Guide is presented in numerical order by major market and by individual end use, with descriptions of each end use. Participants should report the aluminum weight of all semi-fabricated product shipments to customers, distributors, and intra-plant shipments for fabrication beyond the semi-fabricated state.

Semi-fabricated product categories are designated below with accompanying Aluminum Association product codes.

<u>Product</u>	<u>Assn Code</u>
Sheet	
Nonheat-treatable	3100
Heat-treatable	3200
Plate	
Nonheat-treatable	3300
Heat-treatable	3400
Foil	3500
Drawing Stock (redraw rod), continuous cast or rolled	4110
Wire, Bare, conductor or nonconductor	4300
ACSR & Aluminum Cable, bare	4400
Wire & Cable, insulated or covered	4500
Rod & Bar, rolled and/or extruded	4700
Pipe & Tube, extruded or drawn	5700
Extruded Shapes	5300
Powder & Paste	
Atomized	6100
Flaked	6200
Paste	6300
Forgings	7100
Impacts	7400

Participants manufacturing any product beyond the semi-fabricated state should report the intra-plant shipment of the final mill (semi-fabricated) shape consumed.

1. a company that produces redraw rod, draws the rod into wire and finally manufactures nails, should report the weight of wire shipped under the product "Wire, Bare, Conductor & Nonconductor" and in end use 01-99: Other Building & Construction (see reporting form).
2. a company that produces foil and subsequently manufactures food containers should report the weight of foil shipped under the product "Foil" and in end use 06-20: Semi-rigid Food Containers.
3. A company that extrudes billet into shapes and manufactures windows should report the weight of extrusions shipped to windows under the product "Extruded Shapes" in the end use 01-02: Doors, Windows, Skylights & Thresholds (residential) or in end use 01-03: Doors, Windows, Skylights & Thresholds (non-residential).

Participants shipping to end use 0800: DISTRIBUTORS & JOBBERS should only report in Code 0800 when the distributor end use is not known or when you cannot reasonably estimate for the distributor end uses. The Association will continue to survey for total shipments to distributors and jobbers in a separate survey.

Exports of semi-fabricated products should be coded to 0900: EXPORTS, even if the end use is known. Shipments to locations outside of the United States and Canada, including Mexico, should be considered an export. Shipments from the U.S. to Canada, and vice versa, are not counted as exports.

SEMI-FABRICATED PRODUCT DEFINITIONS

Cable, ACSR and aluminum (bare) - Aluminum stranded conductor reinforced by a core of steel (ACSR); or any other bare stranded aluminum conductor.

Drawing stock (redraw rod) (continuous cast or rolled) - A solid round product that is long in relation to cross section, 0.375" (9.525 mm) or greater in diameter, produced by continuous casting followed by size-rolling or by rolling from D.C. cast ingot, suitable for drawing into wire.

Foil - A flat rolled product, rectangular in cross section, of thickness less than or equal to 0.0079" (0.20 mm).

Forgings (excluding impact extrusions) - A product worked to a predetermined shape by one or more processes such as hammering, upsetting, pressing, rolling, etc.

Impacts (excluding collapsible tubes and cans) - A product formed in a confining die from a metal slug, usually cold, by rapid simple stroke application of force through a punch, causing the metal to flow around the punch and/or through an opening in the punch or die.

Pipe and tube (extruded and drawn) - A hollow wrought product with a uniform wall thickness (except as affected by corner radii) that is long in relation to its cross-section, round, square, rectangular, hexagonal, octagonal, or elliptical in shape, produced either by hot extruding and/or brought to final dimensions by cold drawing through a die.

Plate, heat-treatable - A flat rolled product, typically in 2XXX, 6XXX, or 7XXX alloy series (except 7072), rectangular in cross section, 0.250" (6.35mm) or greater in thickness, which can be strengthened by a suitable thermal treatment.

Plate, nonheat-treatable - A flat rolled product, rectangular in cross section, 0.250" (6.35 mm) or greater in thickness, which derive strength from solid-solution or dispersion hardening and are further strengthened by strain hardening (cold work). Exclude cast tool and jig plate which are not rolled products.

Powder, atomized - Powder produced by blowing or aspirating molten metal through an orifice.

Other flake, powder, and paste - Includes the following products:

- a. Powder - an aggregate of discrete particles of aluminum, substantially all of which are finer than 1,000 microns (minus 18 mesh).
- b. Paste - a blend of powder or flake with a thinner or plasticizer.
- c. Powder, flaked - Powder consisting of flat or scale-like particles of a thickness small compared with other dimensions, produced by milling in the presence of a lubricant.

Redraw rod - See drawing stock.

Rod and bar (rolled and/or extruded) - A solid round, square, rectangular, hexagon, or octagonal shaped product that is long in relation to cross section, 0.375" (9.525 mm) or greater in diameter or in at least one perpendicular distance between parallel faces, produced by continuous casting or rolling or by extruding; other than drawing stock and D.C. cast ingot.

Shapes, extruded - A shape produced by extruding, that is long in relation to its cross sectional dimensions and has a cross section other than that of rod and bar and pipe and tube.

SEMI-FABRICATED PRODUCT DEFINITIONS

Sheet, heat-treatable - A rolled product typically in 2XXX, 6XXX, and 7XXX alloy series (except 7072), flat or coiled, rectangular in cross section, of 0.0079" (0.20 mm) thickness but under 0.250" (6.35 mm) thickness, which can be strengthened by a suitable thermal treatment.

Sheet, nonheat-treatable - A rolled product, flat or coiled, rectangular in cross section, of greater than 0.0079" (0.20 mm) thickness but under 0.250" (6.35 mm) thickness, which derive strength from solid-solution or dispersion hardening and are further strengthened by strain hardening (cold work).

Wire, bare, conductor and nonconductor - A solid wrought product that is long in relation to cross section, which is square, round, rectangular, hexagonal, or octagonal in shape, whose diameter or greatest perpendicular distance between parallel faces (except for flattened wire) is less than 0.375" (9.525 mm).

Wire and cable, insulated or covered - All aluminum insulated wire, or stranded conductor, or cable for transmitting electrical energy, signals or communications. Include electronic wire and cable, telephone wire and cable, power cable, control and signal wire and cable, building wire, apparatus wire and cable, weatherproof and service drop cable, shipboard and ground support cable, etc., and magnet wire.

REPORTING INSTRUCTIONS

Participants in the End Use Reporting System should use the Excel © survey that the Association distributes by email. The survey is a multi-page and multi-tab spreadsheet that contains physical surveys and an “upload” sheet. All participants are requested to complete the physical surveys and email their response to the Association. The Association uses the “upload” sheet to import your data directly into our database.

SHIPMENTS - Report in thousands of pounds metal *physically* shipped.

Include the following:

- o Shipments to all customers in the United States and Canada
- o Shipments to outside companies in the United States and Canada
- o Shipments to customers and companies outside of the United States and Canada (exports)
- o Shipments of metal made under toll arrangements even though title/ownership of the metal may remain with the shipper of record.
- o Shipments to companies in which you have an interest. Include metal shipped to other plants in your company unless you are preparing a consolidated report for all plants in your company.
- o Shipments within your company for fabrication beyond the mill stage.
- o Shipments made under trade (swap, switch, barter or convenience exchange) agreements even though no sale is involved.

Exclude:

- o Shipments of products purchased for resale.
- o Shipments made to other plants in your company if you are making a consolidated report.
- o Sales and trades of metal if there is no physical movement of the metal.
- o Do not report as a shipment any feedstock (such as billet) you may produce that is converted into a semi-fabricated product. Report the product shipped in its most advanced form.

END USE CATEGORIES FOR 2016 - SUMMARY

0100: BUILDING & CONSTRUCTION

- 01-02: Doors, Windows, Skylights & Thresholds, Residential (extruded products only)
- 01-03: Doors, Windows, Skylights & Thresholds, Nonresidential (extruded products only)
- 01-04: Doors, Windows, Skylights & Thresholds (excluding extruded products)
- 01-08: Screen Frames & Screening
- 01-10: Awnings & Canopies
- 01-15: Residential Siding, Soffits, Fascia and Accessories, including Trim Coil, and Residential Roofing & Accessories
- 01-29: Commercial, Industrial, Rural Roofing & Siding, and Accessories incl. Commercial Shingles
- 01-36: Pre-engineered (Prefabricated) Industrial, Commercial & Farm Buildings & Structures, and Manufactured Housing and Mobile Homes
- 01-37: Sun Rooms & Patio Enclosures
- 01-38: Wall Panels, Partitions, and Interior Enclosures
- 01-46: Duct, Louvers & Vents, Other Heating & Ventilating
- 01-50: Curtain Wall
- 01-51: Store Fronts and Entrances
- 01-64: Highway & Street Signs & Blanks, Lighting Standards & Parking Meter Pipe Stands, and Other Bridge, Street & Highway Uses
- 01-70: Gutters & Down-spouts
- 01-71: Shower and Tub Enclosures
- 01-80: Venetian Blinds
- 01-83: Swimming Pools
- 01-84: Stadium Seating and School Gymnasium Grandstands
- 01-85: Railing and Support Systems
- 01-86: Storms shutters
- 01-99: Other

0200: TRANSPORTATION

- 02-02: Space & Missiles (exclude Military)
- 02-04: Aircraft & Helicopter
- 02-21: Naval & Commercial Marine
- 02-30: Rail
- 02-40: Trailers & Semitrailers
- 02-45: Trucks & Buses
- 02-50: Passenger Cars & Light Trucks, OEM
- 02-51: Passenger Cars & Light Trucks, Spare Parts and After Market Sales
- 02-55: Motorcycles, Motorscooters, Snow Mobiles, ATV's
- 02-71: Travel Trailers & Recreational Vehicles
- 02-75: Trailers (less than 8' X 8' X 10')
- 02-78: Storage and Shipping Containers (other than trailers)
- 02-90: Military Vehicles
- 02-99: Other

0300: CONSUMER DURABLE GOODS

- 03-02: Refrigerators & Freezers
- 03-05: Air Conditioners, Central, Unitary, Window and Portable
- 03-10: Other Major Appliances
- 03-30: Portable Appliances
- 03-40: Cooking Utensils (non-electric), Kitchen Tools, Giftware
- 03-50: Furniture
- 03-60: Pleasure Boats & Outboard Motors
- 03-90: Sporting & Athletic Goods, Toys
- 03-99: Other

- 0400: ELECTRICAL
04-01: Electrical Machinery & Equipment
04-20: Lighting Fixtures & Electric Lamps
04-30: Power Transmission & Distribution
04-35: Bus Bar (Bus Conductor)
04-40: Solar Energy Systems
04-45: Wind, Wave, Geo-thermal and Other Alternative Energy Systems
04-50: Electronics & Communications Apparatus & Equipment
04-60: Rigid & Flexible Conduit & E.M.T.
04-70: Capacitors (Condensers)
04-99: Other
- 0500: MACHINERY & EQUIPMENT EXCLUDING ELECTRICAL
05-04: Industrial, Agricultural and Mining Equipment
05-05: Lithographic Printing Plates
05-20: Irrigation Pipe
05-30: Process Industries
05-50: Service Equipment & Supplies
05-55: Ladders & Scaffolds
05-60: Professional, Scientific & Controlling Apparatus & Equipment
05-70: General Components
05-98: Other
- 0600: CONTAINERS & PACKAGING
06-01: Flexible Packaging
06-20: Semirigid Food Containers
06-30: Consumer Foil
06-35: Institutional Foil
06-40: Caps & Closures
06-51: Metal Beverage Cans
06-52: Metal Non-beverage Cans
06-55: Composite Cans including Canisters, and Metal Ends & Tabs for Composite Cans
06-99: Other
- 0700: SHIPMENTS FOR CONVERSION INTO SEMI-FABRICATED PRODUCTS
- 0800: DISTRIBUTORS & JOBBERS OF SEMI-FABRICATED FABRICS
- 0900: EXPORTS
09-99: Exports (all shipments outside of the United States and Canada)
- 1000: ALL OTHER END USES
10-10: Weapons & Ammunition, including military missiles and rockets
10-20: Explosives & Pyrotechnics
10-30: Solid fuel for missiles and rockets
10-41: Metallurgical Uses
10-42: Powder Metallurgy
10-50: Chemical Applications
10-60: Paint, organic coatings and filler applications
10-99: All Other End Uses
- 1100: TOTAL SHIPMENTS

END USE CATEGORY DEFINITIONS

0100: BUILDING & CONSTRUCTION

Report all shipments to fabricators of end products. If you manufacture nails, gutters, roofing sheet, or other end products, report the inter-plant shipments of the final semi-fabricated product consumed. For example, report sheet consumed in the manufacture of awnings under the end use 01-10: Awnings & Canopies and the product "Sheet." Include shipments of end products to jobbers and distributors, unless the end use is known or can be reasonably estimated. Exports of finished products (such as awnings and canopies) should be coded to the appropriate end use. Exports of roofing sheet should be coded to Category 09-00: EXPORTS.

01-02: Doors, Windows, Skylights & Thresholds, Residential (Extruded Products Only)

Doors, including Interior Doors
Windows
Skylights and Accessories
Accessories for Doors & Windows
Combination Doors & Windows
Storm Doors
Storm Windows
Thresholds

Note: Residential doors & windows are those doors & windows most generally used in, but not necessarily limited to, residential type buildings (such as one and two family dwellings, low rise apartments three stories in height or less, etc.)

01-03: Doors, Windows, Skylights, Thresholds, Nonresidential (Extruded Products Only)

Doors, including Interior Doors
Windows
Skylights and Accessories
Accessories for Doors & Windows
Combination Doors & Windows
Storm Doors
Storm Windows
Thresholds

Note: Nonresidential doors & windows are those doors and windows most generally used in, but not necessarily limited to, nonresidential construction (such as office buildings, industrial buildings, institutional buildings, as well as high rise apartment buildings).

Note: Doors and windows designed for and used as an integral part of curtain wall systems and store front systems are excluded from 01-03 and should be coded to 01-51.

01-04: Doors, Windows, Skylights & Thresholds, Residential and Nonresidential (FLAT ROLL PRODUCTS ONLY, EXCLUDE EXTRUDED PRODUCTS)

Doors, including Interior Doors
Windows
Skylights and Accessories
Accessories for Doors & Windows
Combination Doors & Windows
Storm Doors
Storm Windows
Thresholds

0100: BUILDING & CONSTRUCTION (continued)

Note: Doors and windows designed for and used as an integral part of curtain wall systems and store front systems are excluded from 01-04 and should be coded to 01-51.

01-08: Screen Frames & Screening
Screen Doors

Note: Include shipments for screen frames (screen frame inserts) and screening for windows and doors, whether separate or combination windows and doors or for sliding glass doors.

01-10: Awnings & Canopies
Awnings
Cabanas
Canopies
Carports
Marquees, Residential Types only
Patio Covers

01-15: Residential Soffits, Fascia, Siding and Accessories, including Trim Coil, and Residential Roofing & Accessories
Residential siding and accessories, including Trim Coil, Corner Caps, Starter Strips, Flashing, etc.
Exterior Panels & Accessories, including Siding for Prefabricated Residential Buildings
Residential Roofing and Accessories, including flashing
Soffits
Fascia
Trim Coil
Accessories for Soffits & Fascia

01-29: Commercial Roofing & Siding, Industrial Roofing & Siding, Rural Roofing & Siding, and Accessories
In addition to mill products, include corrugated, formed and coiled commercial, industrial and rural roofing and siding sheet, flashing, shingles, and accessories for use on industrial and other nonresidential structures, including protective coverings for boilers, reservoirs, cooling towers, etc., whether sold through direct sales, warehouse sales, distributors or jobbers.

Exclude utility shed, tool shed, park and bus shelters. These items should be coded to 01-99: Other. Exclude sales to manufacturers and dealers of pre-engineered buildings where it is known that the material is to be applied to a pre-engineered structure; these sales should be coded to 01-30.

Note: Roofing and siding products are .024" and heavier. In .024" corrugated only, configurations of 7/8" depth or greater is industrial; less than 7/8" are rural. In thickness over .024", all configurations are industrial. Include all accessories for use with these products regardless of gauge or configuration. Do not include sheet for residential use, which should be coded to 01-15.

0100: BUILDING & CONSTRUCTION (continued)

01-36: Pre-Engineered (Prefabricated) Industrial, Commercial & Farm Buildings & Structures, and Manufactured Housing and Mobile Homes

In addition to mill products, include corrugated or formed industrial roofing and siding sheet and accessories sold for use on pre-engineered, industrial, commercial, and farm structures.

Manufactured housing and mobile homes are movable or portable dwellings constructed to be towed on its own chassis, connected to utilities, and designed without a permanent foundation for year-round living. It can consist of one or more units that can be folded, collapsed or telescoped when towed and expanded later for additional cubic capacity, or of two or more units, separately towable but designed to be joined into one integral unit, capable of being separated into the components for repeated towing.

Note: Include sales to distributors where it is known that the material is to be applied to pre-engineered structures, manufactured housing or mobile homes. Exclude utility sheds, tool sheds, park and bus shelters, which should be coded to 01-99: Other. Do not include formed rural roofing whether or not sold for pre-engineered buildings, which should be coded to 01-29.

Note: Include shipments to Specialty Distributors selling to mobile homes manufacturers. Include shipments for windows, doors, sliding and accessories designed for mobile homes. Code ducts for mobile home to 01-46: Duct. Exclude awnings and canopies which should be reported under Category 01-10: Awnings & Canopies.

01-37: Sunrooms and Patio Enclosures

Sunroom and patio enclosures, including accessories

01-38: Wall Panels, Partitions, and Interior Enclosures

Wall panels, partitions, interior enclosures, and accessories

01-46: Duct, Louvers & Vents, and Other Heating & Ventilating

Ducts - Ventilating, Heating & Air Conditioning (include ducts used in mobile homes and travel trailers & recreational vehicles).

Building Insulation and Sheathing

Heating Equipment - Commercial & Residential, including Radiant Systems, Baseboard Convectors (including electrical), Furnaces, Space Heaters, Furnace Filters, Registers, etc.

Louvers (except for Curtain Wall) and accessories

Louvers Ceilings

Roof Ventilators

Vents and accessories

Note: Exclude central combination heating/air conditioning units, which should be coded to 03-05: Air Conditioners. Exclude pipe insulation sheathing and insulation which should be coded to 05-30.

0100: BUILDING & CONSTRUCTION (continued)

01-50: Curtain Wall
Curtain Walls - Mullions, Spandrels, Windows, Louvers & Other
Components of Curtain Wall Construction

01-51: Store Fronts & Entrances
Entrances & Entrance Doors
Store Fronts

Note: The term Store Front is used broadly to cover commercial, office and institutional buildings as well as stores.

01-64: Highway and Street Signs & Blanks, Lighting Standards & Parking Meter Pipe
Stands and Other Bridge, Street & Highway Uses
Highway and Street Signs & Blanks, including blanks sold through specialty
distributors & jobbers. Include overhead sign support structures.
Lighting Standards and Parking Meter Pipe Stands, including brackets and cross
arms, but excluding Parking Meters (which are coded to 05-60)
Bridges
Bridge and Guard Rail Systems
Culverts, Under-drain & Accessories
Deflectors & Light Deflector Strips
Glare Screens

Note: Exclude Special Purpose Military Bridges which should be coded to
10-99: Other End Uses

01-70: Gutters & Downspouts
Downspouts, Gutters, gutter guards, gutter hangers, gutter clips and fasteners,
and other accessories.
Note: Fasteners are generally coded to 05-70, unless the application is known.

01-71: Shower and Tub Enclosures
Shower & Tub Enclosures
Shower Stalls

01-80: Venetian Blinds
Blinds, including frame materials

01-83: Swimming Pools
Constructed swimming pools, generally permanent in-ground pools and related
equipment, not portable. Note: Portable swimming pools should be coded to
03-90: Sporting & Athletic.

01-84: Stadium Seating and School Gymnasium Grandstands
Stadium and School Gymnasium seating and grandstands

01-85: Hand Railing, Railing, and Support Systems
Hand railing and railing, including support systems

01-86: Storm Shutters
Storm shutters

0100: BUILDING & CONSTRUCTION (continued)

01-99: Other

Acoustical - Ceilings, Walls
Auxiliary Building, Other than Pre-Engineered (Prefabricated)
Bathroom Fixtures & Cabinets
Blackboards
Boat Docks
Builders Hardware
 Brackets & Similar Fitting
 Builders Locks
 Cabinet Hardware, Handles, etc.
 Clothing Hooks
 Combination Locks
 Concrete Forms
 Door Stops, Closers and Knobs
 Hinges - Butt, Continuous, Gate, Invisible, Mortiseless, Other
 House Numerals
 Industrial Locking System
 Keys
 Letters
 Locks & Latches
 Lock Plates
 Padlocks
 Plugs
 Push Bars - Push Plates
 Residential Locks
 Right Angles
 Shelf Brackets & Strips
 T's and U's
 Window Locks
 Miscellaneous Hardware
Ceiling - Panels, Systems, Tile
Chain Link Fencing
Church Steeples
Chute - Laundry, Mail
Columns
Coping
Corn Cribs
Corner Beads
Cornices
Elevators
Escalators
Farm Gates
Fencing, Gates and Accessories
Fire Escapes
Flag Poles
Flood Control Walls
Garage Doors and Garage Door Panels
Gratings
Gravel Stops
Marine Wall
Marquees, Architectural Type only
Molding Trim
Nails

0100: BUILDING & CONSTRUCTION (continued)

01-99: Other (continued)

Paddle Tennis Courts
Planting Terrace
Plumbing Fixtures, Fittings, Valves & Trim
Poles and Posts (unless known use is 01-64), including uses to mount surveillance cameras, monitors, televisions, etc.
Residential Decking & Fencing
Rural Fencing
Seawall
Semi-Prefab Auxiliary Buildings, except Utility
Sheds - Tools, Utility, Storage
Sheet Metal Work for Buildings (Miscellaneous only, Do not include Sheet Metal for Roofing, Siding, Awnings, Duct, Curtain Wall or Store Front Accessories.)
Shelters - Bus, Military, Park
Shelving
Shields
Sidewalk Vaults
Smokestacks
Storage
Structural Aluminum, Fabricated
Trellis
Wall Tile
Weather Stripping
Other Building & Construction Uses of Aluminum (not listed above)

0200: TRANSPORTATION

02-02: Space & Missiles (exclude military)

Missiles & Rockets
Missile Launching & Support Equipment
Space Simulators
Space Vehicles
Space Vehicle Testing, Launching & Support Equipment

Note: code military rockets and missiles to 10-10 (weapons and ammunition)

02-04: Aircraft & Helicopter

Airframes, Military, Gliders and Drones
Aircraft Engines and Propellers
Aircraft Ground Equipment
Aircraft Simulators
Ground Effect Machines
Helicopter, including Rotors

02-21 Naval & Commercial Marine

Boat Construction & Repair - Fishing Boats & Trawlers, Barges, Tugs, etc.
LNG Tanks Built into Ships
Marine Engines
Marine Equipment & Components, incl. Hold Liners, Decking, Masts, Hydrofoils, etc.
Naval Vessels (all types) including Renovation & Repair

0200: TRANSPORTATION (continued)

02-21 Naval & Commercial Marine (continued)

Ship Construction & Repair

Note: code to 03-60: Pleasure Boats & Motors (consumer) .

02-30: Rail

Railroad Car & Locomotive Parts

Railroad Freight Cars, Passenger Cars and Locomotives

Railroad Service & Industrial Cars

Railroad Industry & Equipment, N.E.C., including Lading Protective Devices

Street, Light Rail, Subway & Rapid Transit Cars

Third Rail (conductor rail)

02-40: Trailers & Semi-trailers

Freight Containers, Van Type, 8' x 8' x 10' & Larger Semi-trailers

Truck Trailers

Dump bodies for trucks and trailers.

Tank trailers and tanks for truck installation

Note: See 02-75 for Trailers smaller than 8' X 8' X10'

02-45: Trucks & Buses

Truck, bus, and delivery van bodies, GVW over 10,000 pounds, including spare parts and after market sales. Excludes light trucks & mini-vans.

Truck and highway tractor engines, cab, trim and chassis.

Other truck bodies, including delivery vans and beverage truck bodies.

02-50: Passenger Cars and Light Trucks, OEM

Passenger car and light truck, original equipment manufacturers, including mini-vans. Includes air conditioners.

02-51: Passenger Cars and Light Trucks, Spare Parts and After Market Sales

Spare parts and after markets sales to passenger car and light trucks, including mini-vans. Includes tool boxes for light truck and air conditioners.

02-55: Motorcycles, Motorscooters, Snow Mobiles, and ATV's

Motorcycles, motorscooters, snowmobiles, All Terrain Vehicles (ATV), and accessories.

02-71: Travel Trailers & Recreational Vehicles

A vehicular, portable structure build on a chassis, designed to be used as a temporary dwelling for travel, recreational and/or vacation use. The body travel width may not exceed 8 feet, and the body length may not exceed 32 feet.

Chopped Vans

Folding Campers

Motor Homes and Travel Trailers

Note: Include shipments for windows and doors designed for travel trailers & recreational vehicles. Exclude ducts for travel trailers & recreational vehicles, which should be coded to 01-40: Duct.

0200: TRANSPORTATION (continued)

- 02-75: Trailers (usually less than 8' X 8' X 10'), not including semi-trailers
A vehicular, portable structure build on a chassis, designed to be used for hauling. These trailers are typically towed by a truck (smaller than semi), SUV or automobile for personal and light commercial uses. Usually these trailers are attached to the towing vehicle by a hitch, although some may be towed as a 5th wheel. The body dimensions are usually less than 8' X 8' X10' but can be larger, depending upon the tow vehicle.

General Trailers for hauling
Horse Trailers
Landscaping Trailers
Race Car, Automobile and Motorcycle Trailers
"U" Haul Trailers
Utility Trailers
Vending Trailers

Note: See 02-40 for Trailers larger than 8' X 8' X10'

- 02-78: Storage and Shipping Containers (other than trailers)
Portable Storage and Shipping Containers, other than trailer.

- 02-90: Military Vehicles
Amphibious Vehicles
Assault Vehicles
Combat Vehicles
Personnel Carriers
Tanks
Other Military Vehicles
Note: Civilian type vehicles & modifications of civilian type design should be included in the appropriate end use.

- 02-99: Other
Air Cushion Vehicles
Boat Trailers
Golf Carts, Motor Driven
Transportation Equipment, Other

0300: CONSUMER DURABLE GOODS

- 03-02: Refrigerators and Freezers
Residential and Commercial, including parts and equipment
- 03-05: Air Conditioners, Window and Portable, and Air Conditioning, Central or Unitary
Air Conditioners, Portable
Air Conditioners, Window
Dehumidifiers
Package Units, Central Units and Engineered
Central Combination Heating/Air conditioning
Systems, including Parts and Equipment

Note: Include parts and equipment for all of the above

0300: CONSUMER DURABLE GOODS (continued)

03-10: Other Major Appliances

Cooking & Food Preparation Equipment, Residential & Commercial - Stoves, Ranges, Steam Equipment, Food Slicing Machinery; including Broiler & Oven Liners, Formed & Burner Bibs or Guards, Formed Dishwashers & Garbage Disposals - Residential & Commercial Equipment, Residential, including Washers, Dryers & Ironers Serving Carts, Institutional Water Heaters

03-30: Portable Appliances

Cooking & Food Preparation Appliances, Electric Electrical Cookware Electric Fans - Residential & Commercial Electrical Floor Treating Machines Electric Hand Irons Electric Appliances - Residential & Commercial Curling Irons & Hair Dryers Heaters, Portable Massage Machines Razors Sewing Machines - Residential, Commercial & Industrial Shears, Hedge Shoe Shiners Sprayers, Insecticide Vacuum Cleaners - Residential & Commercial Vaporizers Vibrators

03-40: Cooking Utensils - (Non-electrical), Kitchen Tools, Fit Ware

Art & Decorative Hollow Ware Cooking Utensils, Non-electric - Household, Institutional & Commercial Cutlery, Knives, Shears & Razors Kitchen Tools & Gadgets for Food Preparation Pots & Pans

03-50: Furniture

Office & Institutional Furniture Outdoor Furniture Serving Carts, Household Shipboard Furniture Baby Furniture & Playpens Podiums, usually foldable or portable

Note: Include shipments of sheet for welded furniture tube.

03-60: Pleasure Boats & Outboard Motors

Canoes Outboard Motors and Other Pleasure Boat Engines Pleasure Boats (all sizes) Recreational Motorized Water Craft Boat Railings, Canopies, and Accessories

0300: CONSUMER DURABLE GOODS (continued)

- 03-90: Sporting & Athletic Goods, Toys, incl. Playground Equipment
Bicycles
Camping & Picnic Equipment
Fishing Equipment
Football Equipment
Games
Golfing Equipment
Hunting Equipment (excluding weapons & ammunition)
Playground Equipment
Rocking Horses
Roller Skating Equipment
Skate boards & Hover boards
Scooters
Swimming Pools, and related equipment, PORTABLE, generally above ground
and portable
Toy Cooking Sets
Tricycles
Wagons
Water Sports Equipment
Winter Sports Equipment
Other Sporting & Athletic
- 03-99: Other
Art Products
Book Ends
Brooms and Mops
Brushes
Buttons
Carriages
Cart, Shopping - Home
Christmas Decorations
Christmas Trees
Church Altar Appointments
Cleaning Equipment, Household
Clocks
Clothes Line and Clothes Pins
Containers, Household
Curtain Stretchers
Drying Racks
Feathers
Flowers, Artificial
Foil Garlands
Hampers, Household
Hitching Posts
Household Fixtures & Apparatus Fixtures - fixtures for bathroom & plumbing
should be coded to 01-99: Other Building and Construction
Ironing Boards
Jewelry
Knitting Needles
Laundry Tubs
Lawn & Garden Supplies
Grass Stops, Lawn Edging, Sprinklers, etc.
Lawn Mowers & Sweepers

0300: CONSUMER DURABLE GOODS (continued)

03-99: Other (continued)

Luggage
Mail Boxes - Rural Type
Mortician Goods
Motion Picture Equipment, including Commercial
Musical Instruments
Novelties
Parasols
Photographic Goods including Commercial
Planters, Formed (Flowers)
Smokers' Articles (except Jewelry), including Ash Trays, & Urns,
Cigarette Holders, Lighters, Pipe Extensions Notions
Snow Shovels
Stationery & Office Supplies - Pen & Pencils
Stamps
Stencils & Brands
Tinsel
Umbrellas
Wastebaskets
Watches
Wheelbarrows
Zippers
Other
Miscellaneous

0400: ELECTRICAL

04-01: Electrical Machinery & Equipment - Shipments to this end use are primarily intended for electrical apparatus, equipment and industrial electrical systems.

Batteries, Storage & Primary, including Flashlight Dry Cell Batteries
Carbon & Graphite Products, including Brushes, Electrodes, Brush Plates, etc.
Controls, Industrial, Electric
General Industrial Power Circuit Devices & Controls, including Starters and
Contacts
Resistance Welding Controls
Rheostats & Resistors
Specific Application Controls

Note: Welding Apparatus, Electric & Non-electric, should be coded to MACHINERY & EQUIPMENT, EXCLUDING ELECTRICAL, 05-02: Special Industrial Machinery. Current Carrying Wiring Devices, including Lightning Rods, Lamp holders (except Automotive), Convenience & Power Outlets, Attachment Plug Caps, Connector Bodies, Motor Bases, Adapters, Fluorescent Starters, Lightning Arresters Connectors, Contacts

Note: Non-current Carrying Wiring Devices, Pole Line & Transmission Hardware, Stamped & Cast Metal Boxes, Covers & Accessories, should be coded to 04-30: Power Transmission & Distribution

Electrified Control Systems - Railroad and Transit Engine Electrical Equipment
Armatures, Field Coils, Drive End Housing for Cranking Motors, Breaker
Point Sets
Lightning Protection Devices

0400: ELECTRICAL (continued)

04-01: Electrical Machinery & Equipment (continued)

Measuring Instruments & Test Equipment, Electrical, including:

Electronic Measuring Instruments & Test Equipment Motors & Generators,
Electric - Fractional, Integral, Prime Movers, Generator Sets

Rectifiers

Strip Conductor for Electrical and Electronic Usage (exclude Capacitor foil which
is coded to 04-70)

Switches - All types, including Knife, Toggle, Snap, Rotary, Solenoid, etc.

Switchgear & Switchboard Apparatus, including:

Panels, Panel Boards & Distribution Boards, Bus Bar Structures and
Enclosures, Relays, Power Fuses, Connectors, Distribution Cut-Outs,
Trolley-Type Ducts, Circuit Breakers

Transformers, Power, Distribution & Specialty Types, Power Regulators,
Boosters, Reactors

04-20: Lighting Fixtures & Electric Lamps

Fixtures - Commercial, Industrial, Residential, Vehicular

Lamps - Desk, Floor & Table

Lamps (Bulbs) - Arc, Electrical Discharge, Fluorescent, Incandescent, Mercury
Vapor, Photoflash

Luminaries - Bridge, Street & Highway

Note: Exclude Street & Highway Standards, Rivets & Brackets which should be
coded to 01-64.

04-30: Power Transmission & Distribution - Shipments to this end use are primarily
intended for electrical utility type systems.

Bare Overhead Conductor for Power Transmission and Distribution Systems
(sold to Public and Privately-Owned Electrical Utilities & line Construction
Contractors)

Appliance Wire & Cord & Flexible Cord Sets

Power Wire & Cable:

Under 601 Volts

601 Volts and Higher

Underground Residential Distribution Cable

Other Insulated or Covered Wire & Cable

Airframe & Missile Cable

Automotive Cable

Building Wire & Cable

Control Wire & Cable

Marine or Shipboard Cable

Missile Ground Support Cable

Multiplex Cable

Service Drop Cable

Service Entrance Cable

Signal Wire & Cable

Single Conductor Covered Line Wire

Weatherproof (or weather resistance) Line Wire

Non-current Carrying Wiring Devices and Other Power Transmission &
Distribution Equipment & Accessories

Armor Rods

Cable Connectors

Cable Terminals

0400: ELECTRICAL (continued)

04-30: Power Transmission & Distribution (continued)

Fittings & Support
Metal Boxes & Covers, Cast
Metal Raceways
Pole Line Hardware
Service Entrance Caps & Ells
Splice Box
Substation Structures
Switch & Outlet Wall Plates
Transmission Towers

04-35: Bus Bar (Bus Conductor) is defined as a rigid electric conductor of any cross section. Include bus bar that goes into bus duct and bus way systems. Includes all types of enclosed bus conductor. Include bus bar used in rectifiers, switchboards, enclosed switch gear and circuit breaker panels.

Exclude supporting structures for open bus installations, e.g., substation structures - code to 04-30. Exclude all enclosures for bus duct and bus way systems - code 04-01.

Note: Bus Bar (Bus Conductor) includes all mill products and castings that have electrical bus conductor applications.

04-40: Solar Energy Systems

Includes framing, mounting and other components for solar energy systems

04-45: Wind, Wave, Geo-thermal and Other Alternative Energy Systems

Includes framing, mounting and other components for wind, wave, geo-thermal and other alternative energy systems (excluding solar)

04-50: Electronics & Communications Apparatus & Equipment

Alarm & Signal Systems & Devices, Electric & Electronic
Broadcast Equipment, Radio & TV, Closed Circuit Systems
Carrier & Repeater Equipment
Cellular and mobile telephones, smart phones
Communication Equipment, Electronic-Commercial, Industrial, Military
Communications Wire & Cable
 Coaxial Cable (Armored and Unarmored)
 Cable Wrap
 Instrumentation Wire & Cable
 Telephone Cable (metal or plastic covered)
 Other Communication Wire & Cable
Computers, Laptops, Tablets, Computer Accessories, MP3, CD and DVD
Intercommunication Equipment
Navigational Aids, Electronic
 GPS units
Radio & TV Receiving Sets
 Amplifiers, Audio
 Chassis
 Microphones
 Phonographs
 Radio, Automobile
 Radio Phone Combinations

0400: ELECTRICAL (continued)

- 04-50: Electronics & Communications Apparatus & Equipment (continued)
Radio & TV Receiving Type Electron Tubes, except Cathode Ray Tubes
Radio, TV, Communication Equipment
Radio, Residential Type Receiver
Recorders
Search & Detection Apparatus, Electronic
Speaker Systems
TV, Residential Type Sets
Tuners
Telephone
Telephone Booths
Telephone Instrument Sets
Telephone Switching & Switchboard Equipment
Transmitting, Industrial & Special Purpose Electron Tubes
Components & Accessories, Electronic, N.E.C.
 Antennae
 Antennae Rotators
 Boosters & Converters, TV
 Chassis Blanks
 Circuit Boards, Printed
 Coils
 Complex Components
 Delay Lines
 Dial Assemblies
 Needles, Phonograph
 Phonograph Cartridges
 Phonograph Assemblies
 Pickups
 Power Supplies
 Reactors & Chokes for Electronic Applications
 Recorded Mechanism
 Recording Tape & Wire
 Relays
 Resistors
 Semiconductors, Solid State
 Switches
 Transducers
 Transformers
 Transistors
 Tube Parts & Sockets
 Vibrators
 Wave Guides & Fittings

Note: Exclude Capacitors (Condensers) which should be coded to 04-70.

- 04-60: Rigid & Flexible Conduit & E.M.T. (Electrical Metallic Tubing)
Rigid and Flexible Conduit, including Bracket

- 04-70: Capacitors (Condensers)
Capacitors for Electronic Applications
Capacitors for Industrial Use

0400: ELECTRICAL (continued)

04-99: Other

Shipments should be coded to specific electrical end uses above wherever possible. This category should only be used when the specific electrical application cannot be identified but at least is known to be in the electrical market.

0500: MACHINERY & EQUIPMENT, EXCLUDING ELECTRICAL

05-04: Industrial, Agricultural & Mining Equipment

Agricultural Machinery, Implements & Equipment

Farm Tractors

Garden Tractors

Rototillers, etc.

Caul Plates

Conveyors & Conveying Systems, including Bulk Station Unloading Equipment,

Fuel Oil Unloading Equipment, etc.

Ceramic Machinery

Construction machinery, including Off-Highway Trucks & Trailers

Cranes

Cranes, Overhead Traveling

Derricks

Excavating Machinery

Foil Caul Stock

Food Products Machinery, Industrial

Foundry Equipment

Hoists

Lumber & Forestry Machinery (Including Caul Plates)

Material Handling Equipment, Other

Metalworking Machinery & Accessories

Jigs & Fixtures

Machine Tools

Welding Machinery & Equipment

Electric & Non-electric, including Portable Welding Wire

Electrodes

Mining Machinery, Mine Cars, Railroad Mine Cars

Packaging Machinery & Equipment

Pallets

Paper & Pulp Industry Machinery

Plastics Machinery, excluding Foil Litho Stock

Pharmaceutical Machinery

Printing Machinery

Printing Plates, excluding Sheet & Foil Litho Stock

Rubber Machinery

Shoe Leather Machinery

Skid Platforms

Textile Machinery

Tobacco Machinery

Tools, Portable Power - Drills, Sanders, Saws, etc.

Trucks, Industrial

Winches

Woodworking Machinery

Wrapping Machinery

0500: MACHINERY & EQUIPMENT, EXCLUDING ELECTRICAL (continued)

- 05-05: Lithographic Printing Plates
Sheet and Foil litho stock
- 05-20: Irrigation Pipe
Company Warehouse Sales (Irrigation Pipe sold from Warehouses)
Irrigation Pipe & Fitting Manufacturers
Irrigation Systems, Distributors & Jobbers

- 05-30: Process Industries
LNG Tanks, not built into ships (including transferable and reusable tanks)
Pipe Jacketing & Insulation
Specialized industry machinery & equipment for production, storage, & distribution in the following industries:
 Chemicals, Gas, Oil & Petroleum
 Cryogenics
 Nuclear materials
Sewage Disposal & Treatment Equipment
Water Desalting, Distribution & Purification Equipment
Process Equipment for any industry, when not manufactured by specialized industry manufacturers as a component of specialized machinery, including:
 Atmospheric Tanks
 Heat Exchangers & Condensers
 Process & Storage Tanks & Pressure Vessels

Note: When it is a component of specialized machinery, this item should be coded with the end use of the specialized machinery.

- 05-50: Service Equipment & Supplies
Barber Shop Equipment
Beauty Shop Equipment
Bowling Pin Spotters
Carts, Shopping - Commercial
Cash Registers
Coin-Operated Machines
Dry Cleaning Machinery - Commercial
Fixtures - Commercial & Industrial
Garage Service Equipment, including lifts
Laundry Machinery, Commercial
Litters, Field Folding Support
Office Machines
 Business Machines
 Computing Equipment
Safes
Scales & Balances
Service & Trade Machinery, N.E.C.
 Belt Cutters & Splicers
 Floor & Sidewalk Sweepers
 Voting Machines, etc.
Slot Machines
Walk-in Coolers and Freezers
Word Processing Equipment

0500: MACHINERY & EQUIPMENT, EXCLUDING ELECTRICAL (continued)

05-55: Ladders & Scaffolds

Ladders and scaffolds, including work platform or work bench

05-60: Professional, Scientific & Controlling Apparatus & Equipment

Balloons, Atmospheric Observation

Canes, Crutches

Instruments, Aircraft & Navigation

Instruments, Apparatus, Measuring & Controlling Non-electric Only

Instruments & Apparatus, Scientific & Professional including:

Drafting Instruments, Laboratory Balances, Operating Room

Equipment & Tables, Ophthalmological Goods, Optical

05-70: General Components

Fasteners, except Nails

General Hardware (excluding hardware made for specific uses
such as Builders, Marine, Luggage, Aircraft, Motor Vehicles,
Casket, Furniture, Transportation & Saddlery)

Identification Devices, including Nameplates

Staples

Tacks

Wire Cloth, Industrial

Notes:

Include Shipments to Jobbing Screw Machine Manufacturers.

Fasteners intended for Gutters and Downspouts should be coded to 01-70.

05-98: Other

Bearings, Bushings & Mechanical Power Transmission Devices

Blasting Caps

Compressors, Pumps & Industrial Spraying Equipment, except
Metallizing Guns, Agriculture

Crushing, Pulverizing & Mixing Machinery

Engines & Turbines, General Purposes, N.E.C.

Fans & Blowers, Industrial

Fire Fighting Equipment, except Trucks & Truck Bodies

Furnaces & Ovens, Industrial

General Purpose Machinery N.E.C.

Hand Tools, - Garden & Mechanics' Non-power Driven (exclude
Snow Shovels, which should be coded to 03-99)

Industrial Models and Patterns

Machinery, General Purpose, including Driers, Filters,
Lubrication Equipment, Presses, etc.

Metal Product Fabricators, including Aluminum Wool, Flexible

Metal Product Fabricators, including Aluminum Wool, Flexible

Hose, Gaskets, Metal Strapping, Pipe Hangers, Shims, etc.

Models, Patterns & Molds

Valves & Fittings, Industrial

Wire Products, including Bale Ties, Cable, Chain, Wire

Springs, etc.

0600: CONTAINERS & PACKAGING

- 06-01: Flexible Packaging (including all laminated and unlaminated foil used for packaging except that used in other packaging categories)
Antibiotic, Drugs, Pharmaceuticals & Medical Supplies
Chewing Gum, Confections, Nuts, Potato Chips, Popcorn, and Kindred products
Chocolate - Solid & Powdered, Coffee, Dessert Mixes, Drink, Powder & Dry Concentrates, Gelatin, Salt, Sugar Tea & Kindred Products
Cigarette & Other Tobacco Packaging
Converters of Bare & Laminated, Printed or Unprinted Foil
(includes, Greeting Card Stock) Note: If specific end use is known, please code to that end use
Cookies, Crackers, Baking & Milling Product, Bread Cereals, & Kindred Products
Dairy Products, Oleo margarine & Other Edible Oil Products
Decorative - Fancy Paper, Florist Foil, Gift Wrap, etc.
Dehydrated & Dried Food Products
Greeting Cards
Labels, Tags, Seals, Beverage Wrap-Arounds, Overlays for Semi-rigid Food Containers
Meat, Poultry & Seafood, excluding Metal Containers
Military Packaging
Nonfood Packaging - Chemicals Friction & Insulating Tape, Industrial Parts, Photographic Paper, Photographic Retortable Pouch
Other Food Packaging, N.E.C.
- 06-20: Semi-rigid Food Containers, including Formed Lids
Baked Goods
Cooking Containers Semi-rigid, Formed
Frozen Foods (Pie Pans, Dinner Trays, etc.)
Prepared Precooked Foods
Other
- 06-30: Consumer Foil
- 06-35: Institutional Foil
- 06-40: Caps & Closures
Includes Spot Liners, Foil Membranes and lidding material. Caps and closures for beverage and non-beverage contains should be coded to 06-51 and 06-52, where applicable.
- 06-51: Metal Beverage Cans, Bottles, and Metal Ends & Tabs
Includes shipments to beverage cans and beverage bottles
- 06-52: Metal Non-beverage Cans and Metal Ends & Tabs
- 06-55: Composite Cans, including Canisters & Metal Ends & Tabs

Note: When Foil is sold to a converter or printer for end uses which include canisters or composite cans as well as other flexible packaging uses and the specific use cannot be determined, code to 06-01: Flexible Packaging.

0600: CONTAINERS & PACKAGING (continued)

06-99: Other
Bag Ties
Beer Barrel Manufacturers
Collapsible Tubes
Container Spouts
Spoons and Reels
Ties and Clips
Tins and Metal Boxes
Other Containers

0700: SHIPMENTS FOR CONVERSION INTO SEMI-FABRICATED PRODUCTS

Conversion Stock is defined as a Semi-fabricated product that is to be further fabricated or converted into a mill product form as defined above and listed on the reporting form. Conversion Stock includes Sheet and Foil Reroll Stock, Slugs for Impacts (except for Cans or Collapsible Tubes), Redraw Rod, Forging Stock, Tube Blooms or any other Semi-fabricated shape which will be converted into a semi-fabricated product (as defined above).

Include shipments of conversion stock to domestic customers. Include shipments of non-conversion products (mill products that will not be converted and may be resold), when shipped to an outside domestic producer in this category to avoid duplication.

Exclude exports of conversion products and code to 0900: EXPORTS. Exclude intra-company shipments of conversion stock to a division or affiliate of your company where a combined report is submitted. Exclude conversion stock shipped for direct application in an end use without being converted to another mill product and code to that end use.

Shipments of Redraw Rod to Bare Wire manufacturers should be coded to the customer's market. If the exact end use is not known, estimate the markets for these shipments.

0800: DISTRIBUTORS & JOBBERS OF SEMI-FABRICATED PRODUCTS

08-00: Shipments to Distributors & Jobbers (use only when the specific end use is not known)
Shipments to U.S. and Canadian distributors should only be reported in code 0800 if your company cannot identify or reasonably estimate the specific end use. For example, shipments to a distributor that services the aircraft industry should be reported in 0204: AIRCRAFT & HELICOPTER. Data reported in 0800 should represent only those distributor markets that you cannot reasonably identify.

Shipments to distributors and shipments reported in code 0800 should not include companies that process your product into fabricated consumer products. Examples include but are not limited to: doors, windows, architectural products, awnings, fences, gates, marine, trailers, etc. These shipments should be reported in the applicable end use.

The Association defines a distributor as a company that provides value in the supply chain between the aluminum producer and the ultimate end user. The value created and offered by the distributor shall be derived from providing levels of inventory, processing, delivery options, assumption of credit risk, and other services as required to support the needs of the end user.

0900: EXPORTS

Shipments for export are all shipments of semi-fabricated products intended for locations outside of the United States and Canada, even if the specific end use is known.

09-99: Exports (shipments outside of the United States and Canada)
Include export shipments for conversion into semi-fabricated products. Exports of finished products (such as nails, consumer foil, caps & closures, fencing, etc.) should be coded to the appropriate end use. Exports of roofing sheet, rigid conduit and irrigation pipe should be coded to 0900: Exports. Shipments to distributors in foreign locations should be included in 0900: Exports.

1000: ALL OTHER END USES

10-10: Weapons & Ammunition, including Military Rockets and Missiles
Ammunition
Small Arms
Artillery
Antitank Weapons
Bomb & Bomblet Dispensers
Bombs
Flame Throwers
Flares & Launchers
Free Trajectory Rockets
Fuses
Grenades & Launchers
Guns, Howitzers, Mortars and Related Equipment
Launching and Support Equipment for Rockets
Machine Guns and Other Rapid-Fire Weapons
Military Rockets, Cruise Missiles, Missiles, and ICBM's
Power for Ammunition, Bombs and Free Trajectory Rockets
Rifles, Guns, Pistols and Small Arms, including Sporting Types
Torpedoes, Depth Charges, Naval Mines, Land Mines

10-20*: Explosives & Pyrotechnics

10-30*: Solid Fuel for Missiles and Rockets

10-41*: Metallurgical Uses
Metal Coatings
Master Alloys
Aluminum-Thermic Reductions

10-42*: Powder Metallurgy
Aluminum powder used in the press and sinter process, typically to produce small parts and components

10-50*: Chemical Applications
Manufacturers of aluminum alkalis and other aluminum compounds

10-60*: Paint, Organic Coatings and Filler Applications

1000: ALL OTHER END USES (continued)

10-99: Other End Uses not Covered by Classifications Above (not limited to)

Abrasives
Advertising Displays & Signs
Aircraft Landing Mats
Aluminum Chloride
Amphibious Mobile Assault Bridges
Automobile License Plates
Bridges not Fixed, For Military Purposes
Cathode Protection Devices
Ceramic End Products
Chaff
Copper Industry
Detonating Devices
Display Signs
Dynamite
Ferrous Additive Alloys
Ferrous Meals Industry
Finishing, Coating, Plating & Anodizing
Glass Products
Honeycomb-specific end use unknown
Leather & Leather Footwear
Lumber, Forestry & Wooden End Products
Magnesium Industry
Military Clothing & Equipage
Mining & Quarrying
Plastics, Synthetic Fibers & Elastomers
Pontoon Bridges
Printing & Publishing Industry (exclude Printing Plates, which should be coded to 05-05)
Refractories
Rubber, Rubber Footwear & Rubber Products, including Tire Valves
Scissor Bridges
Service Station Signs
Shells, Drawn and/or stamped
Stamped, Pressed, Spun & Prefabricated Products, Miscellaneous
Textile Industry & Textile End Products
Zinc Industry

(*) Pigment & Powder applications only

1100: TOTAL SHIPMENTS

Total of lines 0100 through 1000. The total shown on this line for each semi-fabricated product should be the same as reported on Line (d) of the survey. Your end use totals should match the shipment totals that you reported for the months corresponding to a given quarter.

ELECTRONIC REPORTING

Participants in the End Use Reporting System are provided with an Excel © survey that the Association can upload directly into its database. This is a two to three page spreadsheet that contains the physical survey, the distributor survey, and the “upload” sheet. All participants are requested to complete the physical survey and email their response to the Association. The Association uses the “upload” sheet to import your data directly into our database. This is being done to reduce data entry requirements and possible errors by Association personnel.

Also, completed industry reports are available in Adobe Acrobat © (PDF) and Excel © formats on the Association’s web site. Please contact the statistical department staff for additional information.

Notes:

- a) Amount: Report in THOUSANDS OF POUNDS, 1 to 10 characters, numeric, whole numbers, no commas or decimals, right justified. If zero (0), do not leave blank.
- b) Comments: If you have revisions to previously reported data, please modify your original survey (the Excel © spreadsheet) and submit your new figures to the Association. We will account for the revisions in our system. Also, please DO NOT USE HYPHENS or other characters in the spreadsheet. Note that all fields in the “upload” spreadsheet must contain data, even if only zero. Please DO NOT modify or delete the “upload” spreadsheet

Electronic Data Reporting Spreadsheet Format - SAMPLE

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1	Q	YR	CODE		3100	3200	3300	3400	3500	5300	5700	4110	4700	4300	4400	4500	7100	7400
2	1	2016	0102	134218	47306	0	0	0	0	86894	10	0	7	0	0	0	1	0
3	1	2016	0103	86989	8246	0	0	0	0	78730	11	0	0	0	0	0	2	0
4	1	2016	0108	47300	42908	0	0	0	0	4384	6	0	2	0	0	0	0	0
5	1	2016	0110	42312	27458	0	0	0	0	13861	993	0	0	0	0	0	0	0
6	1	2016	0115	447545	442376	0	0	0	0	3259	0	0	0	1910	0	0	0	0
7	1	2016	0129	29637	29093	0	0	0	0	534	0	0	10	0	0	0	0	0
8	1	2016	0136	8807	8806	0	0	0	0	1	0	0	0	0	0	0	0	0
9	1	2016	0137	22482	22348	0	0	0	0	80	0	0	0	54	0	0	0	0
10	1	2016	0138	4170	889	0	0	0	0	3257	19	0	5	0	0	0	0	0
11	1	2016	0146	28810	8250	2	0	0	19802	709	16	0	15	0	0	0	16	0
12	1	2016	0150	75199	9366	0	0	0	0	65831	0	0	2	0	0	0	0	0
13	1	2016	0151	27495	21872	75	23	0	0	4490	1033	0	2	0	0	0	0	0
14	1	2016	0163	23819	18283	17	26	0	0	2179	3311	0	3	0	0	0	0	0
15	1	2016	0170	170663	168459	0	0	0	0	1821	0	0	0	383	0	0	0	0
16	1	2016	0171	14072	0	0	0	0	0	14072	0	0	0	0	0	0	0	0
17	1	2016	0175	12411	7371	67	0	0	0	4845	128	0	0	0	0	0	0	0
18	1	2016	0180	20935	16941	0	0	0	3994	0	0	0	0	0	0	0	0	0
19	1	2016	0183	4733	1916	0	0	0	0	2167	630	0	4	16	0	0	0	0
20	1	2016	0184	12717	34	0	0	0	0	1410	11220	0	53	0	0	0	0	0
21	1	2016	0186	23819	18283	17	26	0	0	2179	3311	0	3	0	0	0	0	0
22	1	2016	0199	212106	87191	35	0	615	785	83377	1522	0	411	38170	0	0	0	0
23	1	2016	0202	5118	70	19	1	1116	0	225	330	0	1554	1337	0	0	252	214
24	1	2016	0204	69254	1279	6796	63	22102	1329	16695	734	0	699	2669	0	0	16861	27
25	1	2016	0221	2239	429	335	768	410	0	175	86	0	0	0	0	0	36	0
26	1	2016	0230	96299	43357	77	16456	437	0	34267	986	0	78	0	0	0	641	0
27	1	2016	0240	401699	201404	1909	2872	32	0	183066	395	0	533	4042	0	0	7446	0
28	1	2016	0245	199261	68565	1732	357	139	0	65912	535	0	850	0	0	0	60636	535
29	1	2016	0250	451444	214914	27039	2595	921	65653	69342	24364	0	16007	1279	0	0	23437	5893
30	1	2016	0271	29982	19787	0	0	0	0	9816	4	0	0	364	0	0	11	0
31	1	2016	0290	16193	217	4242	6768	2161	0	282	420	0	176	0	0	0	1927	0
32	1	2016	0299	18130	3777	97	1	103	335	8847	168	0	111	2150	0	0	316	2225
33	1	2016	0302	28145	18959	0	0	0	330	3135	5721	0	0	0	0	0	0	0
34	1	2016	0303	12025	1454	0	0	0	10525	29	7	0	10	0	0	0	0	0
35	1	2016	0304	170207	24089	0	0	0	142961	1742	1415	0	0	0	0	0	0	0
36	1	2016	0310	33787	29173	46	0	0	0	4505	0	0	0	63	0	0	0	0
37	1	2016	0330	2812	2753	0	0	0	0	44	15	0	0	0	0	0	0	0
38	1	2016	0340	39422	38682	0	95	0	0	633	2	0	0	10	0	0	0	0
39	1	2016	0350	59084	27130	0	0	0	185	26385	5384	0	0	0	0	0	0	0

Electronic Data Reporting Spreadsheet Format - SAMPLE

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
40	1	2016	0360	60817	52681	338	0	0	0	7534	93	0	42	0	0	0	129	0
41	1	2016	0390	34809	8528	1953	0	756	0	14202	8266	0	436	297	0	0	371	0
42	1	2016	0399	118882	23367	294	0	0	413	70784	17476	0	42	6164	0	0	71	271
43	1	2016	0401	43522	28328	0	0	0	50	11515	123	0	2060	1437	0	0	9	0
44	1	2016	0420	32480	29504	5	0	0	0	2591	35	0	0	345	0	0	0	0
45	1	2016	0430	523637	4553	0	38	0	32	18246	2170	0	217	5787	189626	302923	45	0
46	1	2016	0435	14426	298	0	62	0	0	5761	117	0	7613	575	0	0	0	0
47	1	2016	0450	62985	49960	42	0	0	2763	8389	775	0	695	357	0	0	4	0
48	1	2016	0460	7244	20	0	0	0	50	7174	0	0	0	0	0	0	0	0
49	1	2016	0470	4349	1002	0	0	0	3255	0	0	0	0	92	0	0	0	0
50	1	2016	0499	44608	22509	94	0	0	2	9188	10849	0	352	1592	0	0	0	22
51	1	2016	0504	39374	1684	2731	3	515	1388	25985	1378	0	288	30	0	0	5363	9
52	1	2016	0505	99834	96524	0	0	0	3310	0	0	0	0	0	0	0	0	0
53	1	2016	0520	34338	33562	0	0	7	0	83	686	0	0	0	0	0	0	0
54	1	2016	0530	31500	22907	4	1691	27	165	3202	2553	0	703	0	0	0	248	0
55	1	2016	0550	25075	19330	0	0	0	0	4435	1307	0	3	0	0	0	0	0
56	1	2016	0555	13036	3367	0	0	0	0	8821	848	0	0	0	0	0	0	0
57	1	2016	0560	12896	6151	81	702	334	27	1221	3449	0	662	0	0	0	269	0
58	1	2016	0570	30899	14145	0	0	0	0	653	88	0	10986	4762	0	0	250	15
59	1	2016	0598	62070	10868	160	84	373	365	22048	4884	0	13506	8731	0	0	89	962
60	1	2016	0601	206243	1036	0	0	0	205207	0	0	0	0	0	0	0	0	0
61	1	2016	0620	103106	17490	0	0	0	85612	0	0	0	0	4	0	0	0	0
62	1	2016	0630	199493	0	0	0	0	199493	0	0	0	0	0	0	0	0	0
63	1	2016	0635	56611	0	0	0	0	56611	0	0	0	0	0	0	0	0	0
64	1	2016	0640	29159	19913	0	0	0	9246	0	0	0	0	0	0	0	0	0
65	1	2016	0651	4065488	4065488	0	0	0	0	0	0	0	0	0	0	0	0	0
66	1	2016	0652	147772	147772	0	0	0	0	0	0	0	0	0	0	0	0	0
67	1	2016	0655	26409	21500	0	0	0	4857	0	0	0	0	52	0	0	0	0
68	1	2016	0699	17975	16594	1	0	0	1224	0	0	0	0	156	0	0	0	0
69	1	2016	0700	652948	298059	285	244	0	0	393	2543	344460	6964	0	0	0	0	0
70	1	2016	0800	16517	4944	2847	751	1307	495	3276	959	0	1938	0	0	0	0	0
71	1	2016	0999	1547674	1299455	20800	52677	27974	61359	29313	6249	14914	10436	479	4444	1808	17658	108
72	1	2016	1010	24355	533	330	0	16	100	4440	107	0	16643	0	0	0	744	1442
73	1	2016	1099	103854	47093	5435	101	1124	1973	11870	12130	0	18349	5580	0	0	86	113