



Federal-Mogul Motorparts Global Distribution Centers Incoming Packaging Requirements



Global Distribution Center Shipping Requirements

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|-------------------|---|-----------------|--------------|-----------|---|
| Document #: | CORP-00090 | Effective Date: | Mar 17, 2017 | Revision: | 4 |
| Location: | F-M Motorparts | | | | |
| Department: | Purchasing | | | | |
| Area(s): | All Distribution Centers | | | | |
| Standard Element: | ISO 9001-2015 : 8 Operation : 8.2 Requirements for products and services : 8.2.2 Determining the requirements for products and services | | | | |
| Owner: | Smoczynski, Jeffrey | Approver(s): | White, David | | |

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1 INTRODUCTION

1.1 Who is Federal-Mogul Motorparts?

Headquartered in Southfield, Michigan, Federal-Mogul Motorparts offers and distributes a broad portfolio of products through more than 20 of the world's most recognized brands in the global automotive aftermarket, while also serving original equipment vehicle manufacturers with products including braking, chassis and windshield wiper applications.

Our leading light vehicle aftermarket brands include ANCO® wiper blades; Champion® spark plugs, wipers and filters; Fel-Pro® gaskets; Ferodo® brakes; MOOG® steering and suspension; Wagner® brake and lighting; Sealed Power® engine systems and Speed-Pro® performance engine systems. Commercial Vehicle aftermarket brands include Abex® brake products, FP Diesel® engine and sealing components and National® oil seals and bearings.

Federal-Mogul Motorparts is a division of Federal-Mogul Holdings Corporation. For more than a century, Federal-Mogul has developed the innovative products customers need to produce the next generation of vehicles.

1.2 Where are Federal-Mogul Motorparts Distribution Centers?

Motorparts Distribution Centers are located globally to service our customers with the most recognized brands while providing superior delivery and quality of shipments. Our facilities as provided below in section four provide product distribution, some will include packaging of product. Facilities that only distribute product to our customers will receive product from our suppliers in what we refer to as the finished state, meaning packaged one unit per box and potentially only needing identification labels for the product. Some product can be packaged with multiples in a box, for example Bushings, Shims, Bearings and Hardware are often in kits with multiples, there are others, but the vast majority is one part or component assembly per unit box. Facilities that package product will receive supplier components or material in a bulk state, meaning unpackaged and normally many pieces per box or skid.

Our distribution centers are certified for TS 16949, ISO 9001 and ISO-14001 requirements while servicing our customer expectations. These packaging requirements have been developed and documented to meet our quality, environmental, legal and other requirements as well as our customer expectations. Adherence to these specifications and requirements are a course of doing business with Federal-Mogul Motorparts, failure to abide by these requirements will subject the supplier to handling penalties or repackaging costs as indicated in section nine of this requirement.

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2 OBJECTIVE

- 2.1 Provide information and requirements to suppliers shipping product into our distribution facilities.
- 2.2 Eliminate redundant requirements and provide a global document for new and existing suppliers.

3 SCOPE

- 3.1 These requirements are for Suppliers shipping into any of the following Federal-Mogul Distribution Centers:
 - 3.1.1 North or South American Operations
 - 3.1.2 EMEA Operations
 - 3.1.3 Asian Operations
- 3.2 Distribution Centers not listed below should be contacted directly for shipping and receiving requirements.

4 TERMS AND DEFINITIONS

- 4.1 Block – Rectangular, square, multisided or cylindrical deck spacer, often identified by its location within the pallet as corner block, end block, edge block, inner block, center or middle block.
- 4.2 Deckboard - Element or component of pallet top and bottom, perpendicular to stringers or stringerboards.
- 4.3 Pallet Size - Pallet dimension specified by stringer or stringer board length, followed by top deckboard length and overall pallet height.
- 4.4 Recycled Pallet - Pallet made reusable by sorting, repairing or remanufacturing, using new or reclaimed components from damaged pallets.
- 4.5 Repaired Pallet - A pallet with damaged components replaced with new or used components.
- 4.6 Shiner - A protruding nail or fastener from the wood.
- 4.7 Stringer - May be called a stringerboard, it is a continuous, longitudinal, solid, built up or notched beam component of the pallet, supporting and spacing deck components, often identified by its location as Edge, (side) or Interior, (center) stringer.
- 4.8 GMA Pallet - Commercially recognized as the Grocery Manufacturers Association, (GMA) pallets which are 48 Inch by 40 Inch designs.
- 4.9 Decay - A disintegration of the wood substance due to actions of wood-destroying fungi, also known as dote, rot and unsound wood.
- 4.10 Wane - Bark or lack of wood from any cause, except eased edges, on the edges of the pallet component.
- 4.11 Sound Knot - A knot that is tight, solid, without voids and at least as hard as the surrounding wood. Exhibits structural strength.
- 4.12 Unsound Knot - A knot that is loose or has a void in the wood due to decay, has no structural strength.
- 4.13 Split or Shake - Separation within a wood component not confined to the wood surface, usually intersecting two surfaces. For the purpose of this standard, a split intersecting only one face of the pallet component will be treated as a split only when it exceeds one half of the depth, width or thickness of the component.
- 4.14 Pallet Grade - Commercial grade of pallets referring to requirements for components, age, repaired state and defects allowed. See appendix 13.3 – Pallet Grade Criteria
- 4.15 Wood Class - Wood class or number defining the density of the wood species within that class. Generally referred to as hard or soft woods, often by geographic location.
- 4.16 Wood Species - Specific wood types that are available within each class.

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- 4.17 Phytosanitation - Treatment and marking of wood pallets must conform to the International Standards for Phytosanitary Measures Publication No. 15, (ISPM 15) Regulations of wood packaging material in international trade. ISPM 15 has been adopted by the United States and its trading partners as their import requirements for wood pallets.
- 4.18 Critical Defects – The following defects are considered critical and not acceptable at any time in pallets supplied to Federal-Mogul Distribution Centers.
- 4.18.1 Broken components
 - 4.18.2 Protruding nails on edge or end stringers, stringer boards, blocks or deckboards.
 - 4.18.3 Nonconforming pallets due to size, flatness or squareness.
 - 4.18.4 Notch area defects on stringer, no splits, decay or excess knots allowed in this area.
 - 4.18.5 Missing wood exceeding allowable limits defined within this document.
 - 4.18.6 Wane on edge of leading deckboard or exposed stringer.
- 4.19 Remanufactured Pallet - A pallet assembled entirely or in part with recycled wood pallet parts and manufactured by complete reassembly of all parts with new fasteners.
- 4.20 Unit Load - Assembly of goods or single item on pallet for handling, moving, storing and stacking that meets weight restrictions or requirements from distribution facility.

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5 ADDRESSES AND KEY CONTACTS AT FACILITIES

5.1 North American Operations

| Facility | Address | Phone | Fax | Contact Phone # | |
|------------------|---|-----------------|--------------|--|--|
| Indianapolis DC | 8325 N. Norfolk Street Indianapolis, IN 46268 | 317-228-5300 | 317-879-2538 | Receiving Inventory Quality Plant Mgr | 317-228-5321 317-334-3234 317-334-3236 317-228-5309 |
| Jacksonville DC | 2599 Alabama Hwy 21 North Jacksonville, AL 36265 | 256-435-4700 | 256-435-4440 | Receiving Inventory Quality Plant Mgr | 256-435-0438 256-435-0454 256-435-0485 256-435-4700 |
| Smyrna DC | 2100 Midway Lane Smyrna, TN 37167 | 615-335-1046 | 615-335-9776 | Receiving Inventory Quality Plant Mgr | 615-534-3340 615-534-3384 615-534-3392 615-534-3381 |
| York DC | 20 Leo Lane York, PA 17406 | 717-430-5074 | No Fax | Receiving Inventory Quality Plant Mgr | 717-430-5083 717-430-5026 717-430-2021 717-430-5078 |
| Skokie DC | 7450 N McCormick Blvd. Skokie, IL 60076 | 847-568-2126 | 847-568-1996 | Receiving Inventory Quality Plant Mgr | 847-568-2044 847-568-2126 847-568-2442 847-568-2673 |
| Moreno Valley DC | 22750 Cactus Ave Moreno Valley, CA 92553 | 951-269-2694 | 951-653-2623 | Receiving Inventory Quality Plant Mgr | 951-269-2720 951-269-2703 951-269-2713 951-269-2715 |
| Mexico City DC | Radial Toltecas #2 Tequexquinahuac Tlalnepantla, Estado de Mexico 54020 Mexico | 52-55-5321-2800 | No Fax | Receiving Inventory Quality Plant Mgr | 52-55-5321-28 52-55-5321-28 52-55-5321-28 52-55-5321-28 |
| New Jersey DC | 200 Williams Drive Ramsey, NJ 07446 | 201-934-6300 | 201-934-6372 | Receiving Inventory Quality Plant Mgr | 201-934-6300 201-934-6316 201-934-6314 201-934-6302 |

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5.2 South American Operations

| Facility | Address | Phone | Fax | Contact Phone # | |
|-------------|---|----------------|----------------|--|--|
| La Plata DC | Cno Gral Belgrano Km 6,5 MB Gonnet, La Plata, Buenos Aires, Argentina | 54-221-4710010 | 54-221-4710122 | Receiving Inventory Quality Plant Mgr | 54-221-471-0113-144 54-221-471-0113-148 54-232-049-0000-316 54-232-049-0000-310 |

5.3 Asian Operations

| Facility | Address | Phone | Fax | Contact Phone # | |
|--------------|--|-----------------|--------|--|--|
| Beijing DC | No. 15 Shunchang Road ShunYu Warehouse ShunYi District Beijing, China | 86-13671144460 | N/A | Receiving Inventory Quality Plant Mgr | 86-13671144460 86-13671144460 86-13671144460 86-13671144460 |
| Chongqing DC | No 69 Baohuan Road Kerry Logistics Park Yubei District Chongqing, China | 86-13594188362 | No Fax | Receiving Inventory Quality Plant Mgr | 86-13594188362 86-13594188362 86-13594188362 86-13594188362 |
| Kunshan DC | No. 668, Huaji Road Huaqiao Town Kunshan City China, 215300 | 86-21-317-85947 | No Fax | Receiving Inventory Quality Plant Mgr | 86-21-317-85947 86-21-317-85947 86-21-317-85947 86-21-317-85947 |
| Qingdao DC | No 1 Haier Road Haier Logistics Park Qingdao City Shandong Province, China | 86-18753239801 | No Fax | Receiving Inventory Quality Plant Mgr | 86-18753239801 86-18753239801 86-18753239801 86-18753239801 |
| New Delhi DC | Schenker India Pvt. Ltd. Village- Tajnagar, Jamalpur, Pataudi Gurgaon Road, District Gurgaon, Haryana | 91-971-899-0735 | No Fax | Receiving Inventory Quality Plant Mgr | 91-971-899-0735 91-971-899-0735 91-971-899-0735 91-971-899-0735 |

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5.4 EMEA Operations

| Facility | Address | Phone | Fax | Contact Phone # | |
|-------------------|---|-----------------|-----------------|--|--|
| Bradford DC | Greyhound Drive Off Legrams Lane Bradford, West Yorkshire United Kingdom, BD7 1 NQ | 08009800203 | 01274-848281 | Receiving Inventory Quality Plant Mgr | 08009800203 08009800203 08009800203 08009800203 |
| City West DC | 33 Western Boulevard City West, Johannesburg South Africa, 2092 | 27116303000 | 27116303060 | Receiving Inventory Quality Plant Mgr | 27116303091 27116303093 27116303079 27116303001 |
| Willebroek DC | Schoondonkweg 17, Willebroek, Belgium, 2870 | 32 3 886 40 01 | No Fax | Receiving Inventory Quality Plant Mgr | 32 3 886 40 01 32 3 886 40 01 32 3 450 8029 32 3 886 40 01 |
| Coslada DC | Calle de la Alcarria, 2. Coslada, Madrid, Spain, 28823 | 34917461900 | No Fax | Receiving Inventory Quality Plant Mgr | 34917461900 34917461900 34917461900 34917461900 |
| Ludwigsburg DC | Albert-Ruprecht-Straße 2, Ludwigsburg, Germany, 71636 | 497141648658265 | 497141648658760 | Receiving Inventory Quality Plant Mgr | 4971411328251 497141648658406 497141648658316 390458281388 |
| Mondovi Racing DC | Corso Inghilterra 2, Cuneo, Italy, 12084 | 390174560522 | 390174552248 | Receiving Inventory Quality Plant Mgr | 390174560522 390174560522 39 0458281328 390174560522 |
| Moscow DC | 5 Dachnaya Str Davydovskoe Village Istrinsky District, Moscow Region, Russia | 74952215059 | 74952215064 | Receiving Inventory Quality Plant Mgr | 74952215059 74952215059 74952215059 74952215059 |
| Verona DC | Via Enrico Fermi 8, Verona, Italy, 37135 | 39-045-828-1311 | 39-045-828-1400 | Receiving Inventory Quality Plant Mgr | 39-045-828-1311 39-045-828-1311 39-045-828-1311 39-045-828-1311 |

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6 PACKAGING REQUIREMENTS

Product received in our Distribution Centers must comply with the following physical requirements. These requirements are developed based on Space Utilization, Quality, Safety and Ergonomic factors that influence the productivity of our business.

6.1 PALLETS

- 6.1.1 Allowed pallets are broken up into two groups based on their construction.
 - 6.1.1.1 Recycled pallets are only allowed in our North American distribution centers from North American suppliers. They must be a Grade A or better as defined in section 6.1.2.
 - 6.1.1.2 New pallets must be received from all international suppliers in all of our distribution centers. New pallets must meet the requirements as noted in section 6.1.3.
- 6.1.2 North American supplied pallets Grade A or better must meet the following:
 - 6.1.2.1 All pallets must be stringer constructed, no block single use style pallets permitted.
 - 6.1.2.2 Constructed of class 1, 2 or 3 hardwoods, no plywood is acceptable.
 - 6.1.2.3 All pallets must be 40" Wide by 48" Long, (1,016 mm X 1,219 mm) unless noted differently below based on the Distribution Center requirements.
 - 6.1.2.4 All pallets must be 4-Way constructed with 2 - 9", (229 mm) wide by 2.25", (57 mm) tall stringer openings or notches.
 - 6.1.2.5 Top deck boards cannot have more than a 2.4", (61mm) gap between boards.
 - 6.1.2.6 Deck boards, top or bottom must be .5" thick, (13mm) or greater X 40", (1,016) long.
 - 6.1.2.7 Stringers must be 3.5", (89 mm) tall X 1.75", (44 mm) wide X 48", (1,219 mm) long.
 - 6.1.2.8 Nails used to construct the pallet must be either a coated Helically or Annularly. Threaded Nail with a minimum stringer penetration of 1.5 inch, (38 mm).
 - 6.1.2.9 Construction tolerances are $\pm .07"$, (2 mm) on width and $+ .13"$, (4 mm) / $- .25"$, (-6 mm) on length for the pallet.
 - 6.1.2.10 Boards should be sound, squared edged with no unsound knots, excessive wane or decay on the stringers or deck boards.
 - 6.1.2.11 Stringer board warp cannot exceed 3/8", (10 mm) in any direction.
 - 6.1.2.12 No nails can protrude from the pallets in any location.
 - 6.1.2.13 Based on deck board width, nails used per board per fastened joint shall be based on the following:
 - 6.1.2.13.1 1 to 4 Inch Width, (25 – 102 mm) - 2 nails per joint
 - 6.1.2.13.2 4 to 7 Inch Width, (102 – 178 mm) - 3 nails per joint
 - 6.1.2.13.3 7 to 9 Inch Width, (178 – 230 mm) - 4 nails per joint
 - 6.1.2.14 Quality Requirements
 - 6.1.2.14.1 Moisture content of the deck board and stringers cannot exceed 22%.
 - 6.1.2.14.2 Exposed surface of the bottom and top deck boards must be clean sawed.
 - 6.1.2.14.3 Boards must be free of saw dust.

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6.1.3 New Pallets shipped into our Distribution Centers must meet the following requirements:

6.1.3.1 Wood products, pallets or crates must adhere to ISPM15 – Guidelines for Regulating Wood Packaging material in International Trade. The following is included, but not inclusive of the requirements within the standard. The Supplier must meet the regulations as set forth in its entirety.

6.1.3.1.1 Requires the use of either heat treatment or fumigation of all wood prior to construction and the marking of materials.

6.1.3.1.2 Wood Packaging includes pallets, dunnage, crating, packing blocks, drums, cases, load boards, pallet collars and skids.

6.1.3.1.3 Certified Wood Packaging material must be marked and date stamped (valid for one year). Refer to the Federal-Mogul website for further details: Select Suppliers > Shipping and Tax > Shipping/Tax, followed by Suppliers Imports.

6.1.3.2 All pallets must be stringer constructed, no block single use style pallets permitted.

6.1.3.3 Constructed of class 1, 2 or 3 hardwoods, no plywood is acceptable.

6.1.3.4 All pallets must be 40" Wide by 48" Long, (1,016 mm X 1,219 mm) unless noted differently below based on the Distribution Center requirements.

6.1.3.5 All pallets must be 4-Way constructed with 2 - 9", (229 mm) wide by 2.25", (57 mm) tall stringer openings

6.1.3.6 Top deck boards cannot have more than a 2.4", (61mm) gap between boards.

6.1.3.7 Deck boards, top or bottom must be .5" thick, (13mm) or greater X 40", (1,016 mm) long.

6.1.3.8 Stringers must be 3.5", (89 mm) tall X 1.75", (44 mm) wide X 48", (1,219 mm) long.

6.1.3.9 Nails used to construct the pallet must be either a coated Helically or Annularly Threaded Nail with a minimum stringer penetration of 1.5 inch, (38 mm).

6.1.3.10 Construction tolerances are $\pm .07"$, (2 mm) on width and $+ .13"$, (4 mm) / $- .25"$, (-6 mm) on length for the pallet.

6.1.3.11 Boards should be sound, squared edged with no unsound knots, excessive wane or decay on the stringers or deck boards.

6.1.3.12 Stringer board warp cannot exceed $3/8"$, (10 mm) in any direction.

6.1.3.13 No nails can protrude from the pallets in any location.

6.1.3.14 Based on deck board width, nails used per board per fastened joint shall be based on the following:

6.1.3.14.1 1 to 4 Inch Width, (25 – 102 mm) - 2 nails per joint

6.1.3.14.2 4 to 7 Inch Width, (102 – 178 mm) - 3 nails per joint

6.1.3.14.3 7 to 9 Inch Width, (178 – 230 mm) - 4 nails per joint

6.1.3.15 Quality Requirements

6.1.3.15.1 Moisture content of the deck board and stringers cannot exceed 22%.

6.1.3.15.2 Exposed surface of the bottom and top deck boards must be clean sawed.

6.1.3.15.3 Boards must be free of saw dust.

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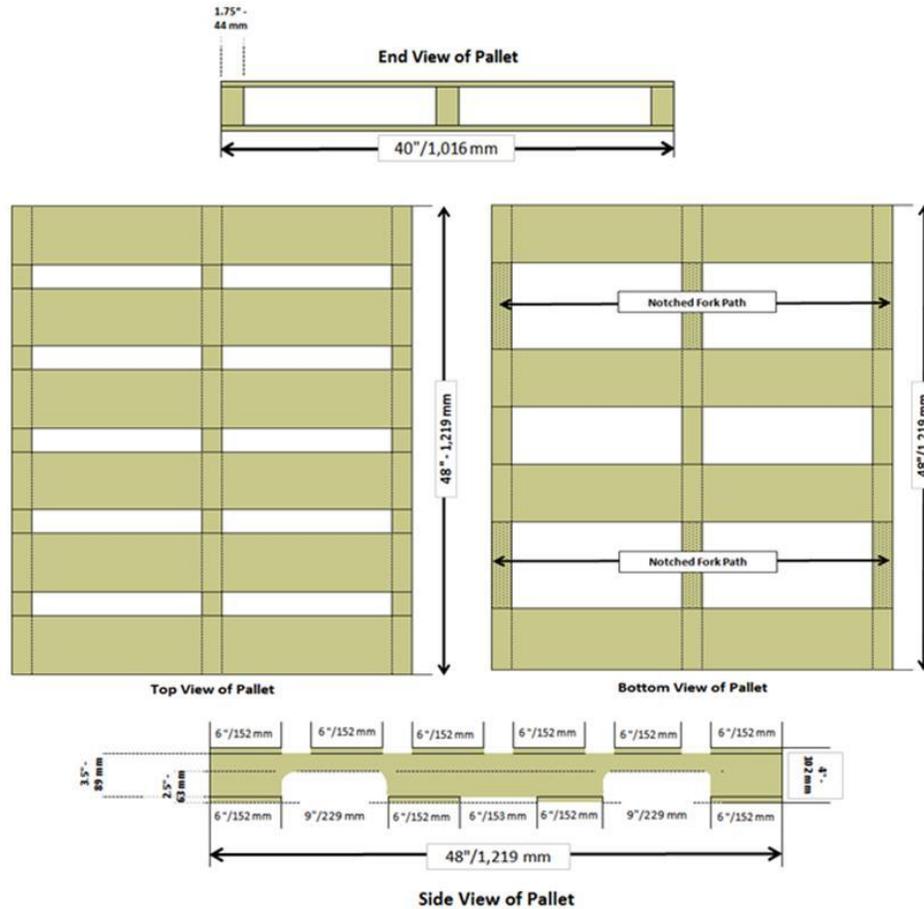


Figure 1: Four-way entry pallet dimensions

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An example of a four-way entry pallet is shown below. There are entry points for forklifts on all four sides of the pallet.



Figure 2: Side view of a four-way entry pallet



Figure 3: Underside view of a four-way entry pallet

6.2 Bulk Crates

- 6.2.1 Wooden crates are only to be utilized by suppliers for bulk material and when the size and the protection of the product for quality reasons are at risk in our preferred packaging method. No finished, packaged product is to be received in wooden crates.
- 6.2.2 Suppliers must adhere to the dimensional characteristics of the crate; especially important is the height of the crate due to safety and ergonomic concerns.

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6.2.3 All crates must meet the following requirements as well as those listed in Table 2 below:

6.2.3.1 No plywood may be used for crate construction.

6.2.3.2 Must have 3 runners for support.

6.2.3.3 Corrugated crates must be secured to pallets.

6.2.3.4 Corrugated crates must be Triple Wall constructed with an ECT rating of 112 min.

6.2.3.5 Crate pallets must follow the same requirements indicated above for pallets, with the exclusion of size.

6.2.4 Site-specific requirements

The tables below identifies the pallet and bulk crate specifications and requirements for each Distribution Facility to receive shipped product.

6.2.4.1 North American Operations

| Facilities | Pallets | | | Bulk Crates | |
|--|---|------------------------------|------------------------|--|---------------|
| | Size & Type (W x L) | Height (Including pallet) | Max. Gross Weight | Size | Height |
| Indianapolis DC Jacksonville DC Smyrna DC Moreno Valley DC Skokie DC Mexico City DC | 40" X 48" 102 X 122cms 4-Way Entry | 42" 109 cms | 2,000 lbs 907 kgs | 30" X 44" 76 X 112 cms Hardwood Material No Plywood | 34" 86 cms |
| UPS Receipts 150 lbs 68 kgs | | | | | |
| York DC | 40" X 48" 102 X122 cms 4-Way Entry | 42" 107 cms | 2,000 lbs 907 kgs | 30" X 44" 76 X 112 cms Hardwood Material No Plywood | 34" 86 cms |
| | Drums & Rotors 42" X 42" 107 X 107 cms 4-Way Entry | 56" 142 cm | 2,500 lbs 1,134 kgs | | |

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| Department: | Purchasing | | | | |
| Area(s): | All Distribution Centers | | | | |
| Standard Element: | ISO 9001-2015 : 8 Operation : 8.2 Requirements for products and services : 8.2.2 Determining the requirements for products and services | | | | |
| Owner: | Smoczynski, Jeffrey | Approver(s): | White, David | | |

6.2.4.2 South American Operations

| Facilities | Pallets | | | Bulk Crates | |
|-------------|---|---------------------------|----------------------|--|---------------|
| | Size & Type (W x L) | Height (Including pallet) | Max. Gross Weight | Size | Height |
| La Plata DC | 40" X 48" 102 X 122 cms 4-Way Entry | 45" 114 cms | 2,000 lbs 907 kgs | 30" X 44" 76 X 112 cms Hardwood Material No Plywood | 34" 86 cms |
| | Drums & Rotors 42" X 42" 107 X 107 cms 4-Way Entry | 45" 114 cms | 2,000 lbs 907 kgs | | |

6.2.4.3 Asian Operations

| Facilities | Pallets | | | Bulk Crates | |
|--------------|---|---------------------------|-----------------------|-------------|--------|
| | Size & Type (W x L) | Height (Including pallet) | Max. Gross Weight | Size | Height |
| Beijing DC | 39" X 39" 100 X 100 cms 2-Way Entry | 59" 150 cm | 2,200 lbs 1,000 kg | N/A | N/A |
| Chongqing DC | 39" X 39" 100 X 100 cms 2-Way Entry | 59" 150 cm | 2,200 lbs 1,000 kg | N/A | N/A |
| Kunshan DC | 39" X 39" 100 X 100 cms 2-Way Entry | 59" 150 cm | 2,200 lbs 1,000 kg | N/A | N/A |
| Qingdao DC | 39" X 39" 100 X 100 cms 2-Way Entry | 59" 150 cm | 2,200 lbs 1,000 kg | N/A | N/A |
| New Delhi DC | 39" X 48" 100 X 122 cms 4-Way Entry | 15.5" 40 cm | 2,200 lbs 1,000 kg | N/A | N/A |

Global Distribution Center Shipping Requirements

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| Department: | Purchasing | | | | |
| Area(s): | All Distribution Centers | | | | |
| Standard Element: | ISO 9001-2015 : 8 Operation : 8.2 Requirements for products and services : 8.2.2 Determining the requirements for products and services | | | | |
| Owner: | Smoczynski, Jeffrey | Approver(s): | White, David | | |

6.2.4.4 EMEA

| Facilities | Pallets | | | Bulk Crates | |
|-------------------|---------------------------|------------------------------|----------------------|---------------------------|----------------|
| | Size & Type (W x L) | Height (Including pallet) | Max. Gross Weight | Size | Height |
| Bradford DC | 32" X 48" 80 X 120 cms | 32" 80 cms | 1,100 lbs 500 kgs | 32" X 48" 80 X 120 cms | 32 " 80 cms |
| City West DC | 32" X 48" 80 X 120 cms | 39" 100 cms | 1,540 lbs 700 kgs | N/A | N/A |
| | 32" X 46" 80 x115 cms | 39" 100 cms | 1,540 lbs 700 kgs | | |
| Willebroek DC | 32" X 48" 80 X 120 cms | 39" 100 cm | 1,540 lbs 700 kgs | N/A | N/A |
| Coslada DC | 32" X 48" 80 X 120 cms | 47" 120 cms | 1,100 lbs 500 kgs | N/A | N/A |
| Ludwigsburg DC | 32" X 48" 80 X 120 cms | 47" 120 cms | 1,300 lbs 600 kgs | N/A | N/A |
| Mondovi Racing DC | 32" X 48" 80 X 120 cms | 32" 80 cms | 1,367 lbs 620 kgs | N/A | N/A |
| | 32" X 32" 80 X 80 cms | 32" 80 cms | 1,100 lbs 500 kgs | | |
| Moscow DC | 32" X 48" 80 X 120 cms | 44" 110 cms | 2,000 lbs 900 kgs | N/A | N/A |
| Verona DC | 32" X 48" 80 X 120 cms | 39" 100 cms | 1,540 lbs 700 kgs | N/A | N/A |

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| Department: | Purchasing | | | | |
| Area(s): | All Distribution Centers | | | | |
| Standard Element: | ISO 9001-2015 : 8 Operation : 8.2 Requirements for products and services : 8.2.2 Determining the requirements for products and services | | | | |
| Owner: | Smoczynski, Jeffrey | Approver(s): | White, David | | |

6.3 Corrugated Fiberboard Case Packaging for Bulk Packaging

- 6.3.1 In conjunction with the pallet requirements detailed in section 6.1 above, Federal-Mogul Motorparts requires that suppliers of bulk product into the packaging and distribution centers utilize four box sizes to unitize their product onto shipping pallets.
- 6.3.2 The use of these case boxes will enable Federal-Mogul and their suppliers to achieve the following benefits:
- 6.3.2.1 Ability to cube shipments easier, reducing transportation costs.
 - 6.3.2.2 Easier unitization of product on pallets.
 - 6.3.2.3 Easier unloading and loading of product from and to pallets.
 - 6.3.2.4 Reduced packaging costs with standard sized boxes.
 - 6.3.2.5 Ability to leverage box suppliers based on greater usage of standard boxes.
 - 6.3.2.6 Improved productivity in packaging operations during material picking process.
 - 6.3.2.7 Ability to achieve one part for one box requirement.
 - 6.3.2.8 Safer work environment for picking and packing process.
 - 6.3.2.9 Ability to recycle all received products through reuse or recycling activity.
- 6.3.3 Receipt of mixed parts or components in a box is not allowed at any point in the value stream. Suppliers must utilize a case box combination that eliminates this possibility.
- 6.3.4 Box construction is that of a Regular Slotted Container, (RSC). Construction dimensions, max weight limits per box and ECT rating for each box follows in Table 6.3.1. All ECT ratings must be confirmed in accordance with TAPPI-T-811 of the Technical Association of the Pulp and Paper Industry.

| Corrugated Fiberboard Box Specifications - Outside Dimensions | | | | | | | | | | | | |
|---|--------|------|---|------|---|-------|---|------------------|------------------------|--------------------|---------------|-------------|
| Box Type | Scale | H | X | W | X | L | = | Volume (Squared) | Max Outside Dimensions | Max Weight Per Box | Construction | ECT Rating* |
| Box A | Inches | 9 | X | 10 | X | 16 | = | 1,440 | 35 | 50 Lbs | Double Walled | 61 |
| | CM | 22.9 | X | 25.4 | X | 40.6 | = | 23,615 | 89 | 23 KG | | |
| Box B | Inches | 9 | X | 20 | X | 16 | = | 2,880 | 45 | 60 Lbs | Double Walled | 61 |
| | CM | 22.9 | X | 50.8 | X | 40.6 | = | 47,231 | 114 | 27 KG | | |
| Box C | Inches | 19 | X | 20 | X | 24 | = | 9,120 | 63 | 80 Lbs | Double Walled | 61 |
| | CM | 48.3 | X | 50.8 | X | 61 | = | 149,672 | 160 | 36 Kg | | |
| Box D | Inches | 19 | X | 20 | X | 48 | = | 18,240 | 87 | 180 Lbs | Double Walled | 82 |
| | CM | 48.3 | X | 50.8 | X | 121.9 | = | 299,099 | 221 | 82 Kg | | |

Double Walled Example:



Double wall board

* ECT = Edge Crush Test Rating For Column Support During Shipment

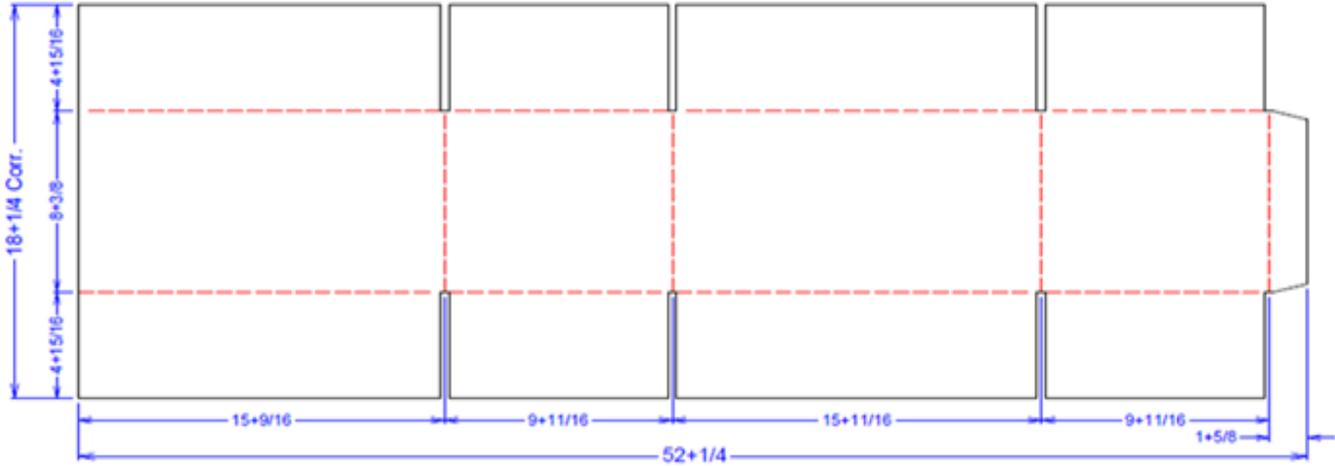
Table 6.3.1

- 6.3.5 The following represent die lines for the boxes pre-gluing. The dimensions shown are inside dimension and are dependent on wall thicknesses from the outside dimensions noted in Table 6.3.1 above.



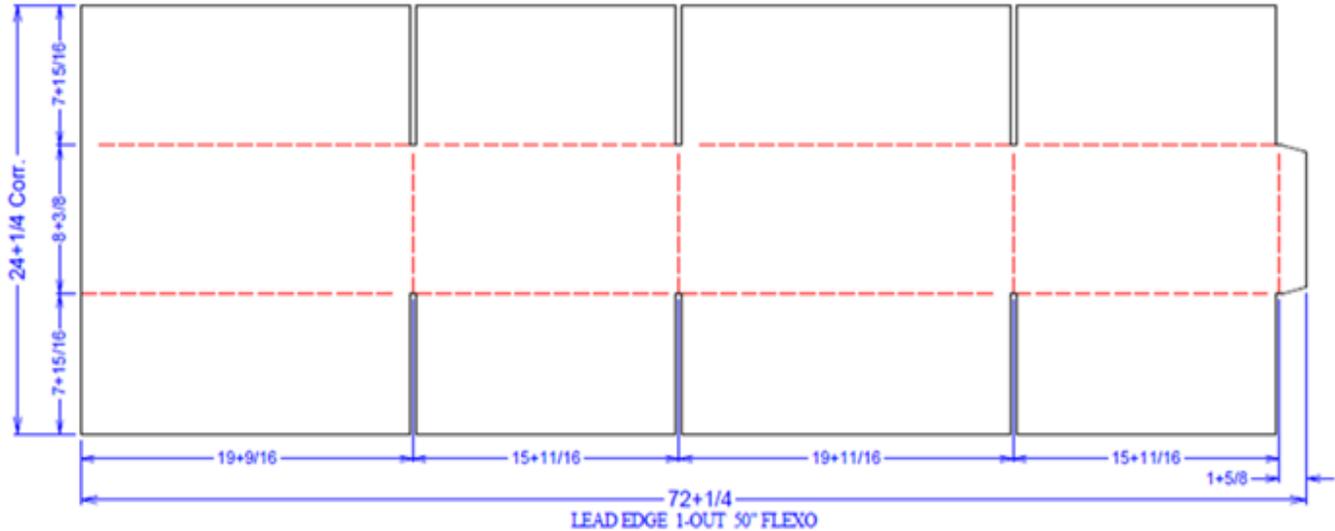
Global Distribution Center Shipping Requirements

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| Standard Element: | ISO 9001-2015 : 8 Operation : 8.2 Requirements for products and services : 8.2.2 Determining the requirements for products and services | | | | |
| Owner: | Smoczynski, Jeffrey | Approver(s): | White, David | | |



| | | | | | |
|-------------|------------------------|---------------|------------|------------|---|
| Part No. | Box A | Project # | S-85-16-1 | Revision : | 0 |
| Board Grade | ECT 61CB : Kraft | Date Created: | 11/17/2016 | | |
| I.D. | 15+3/8 x 9+3/8 x 7+3/4 | | | | |

View outside

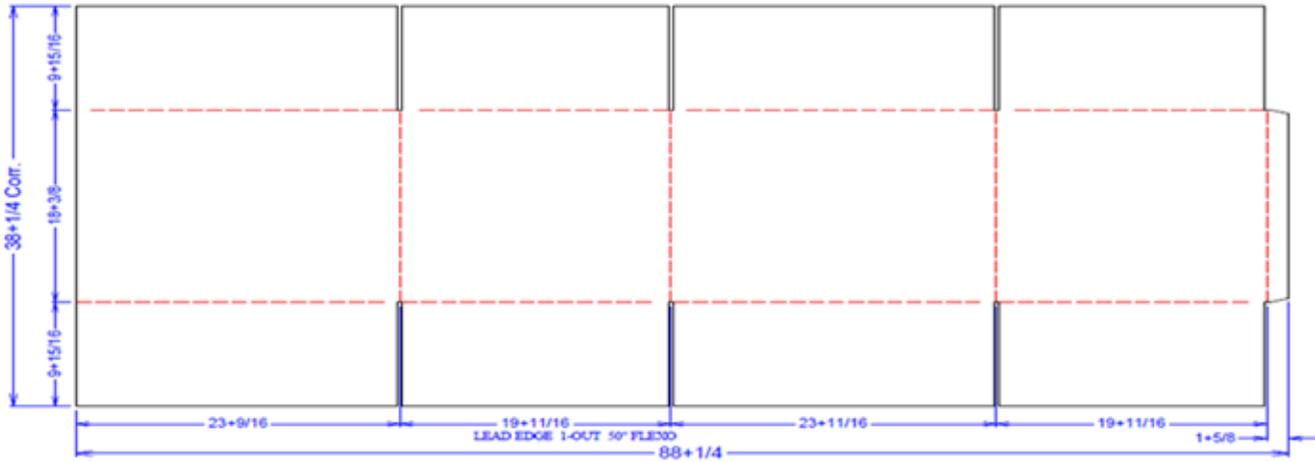


| | | | | | |
|-------------|-------------------------|---------------|------------|------------|---|
| Part No. | Box B | Project # | S-85-16-2 | Revision : | 0 |
| Board Grade | ECT 61CB : Kraft | Date Created: | 11/17/2016 | | |
| I.D. | 19+3/8 x 15+3/8 x 7+3/4 | | | | |

View outside

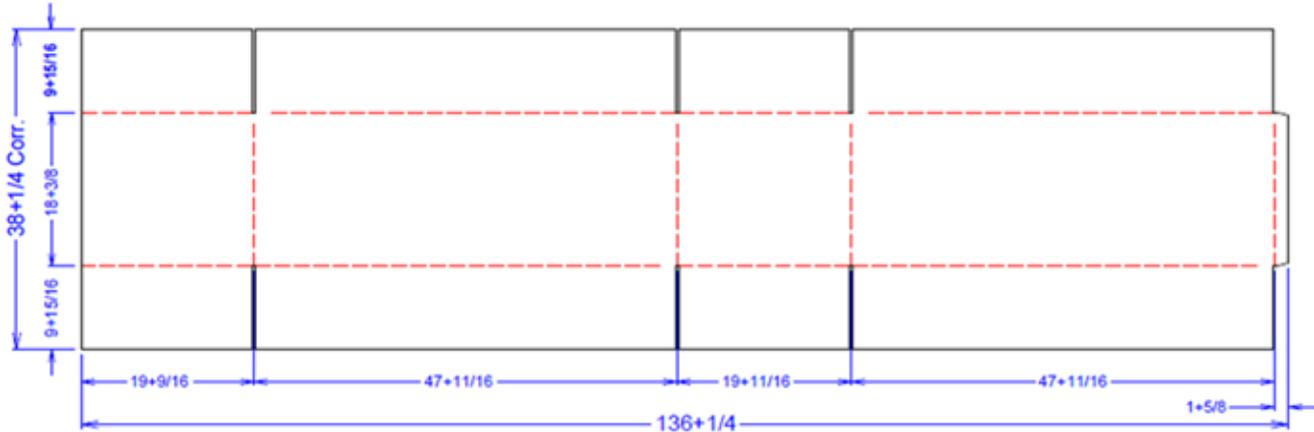
Global Distribution Center Shipping Requirements

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|-------------------|---|-----------------|--------------|-----------|---|
| Document #: | CORP-00090 | Effective Date: | Mar 17, 2017 | Revision: | 4 |
| Location: | F-M Motorparts | | | | |
| Department: | Purchasing | | | | |
| Area(s): | All Distribution Centers | | | | |
| Standard Element: | ISO 9001-2015 : 8 Operation : 8.2 Requirements for products and services : 8.2.2 Determining the requirements for products and services | | | | |
| Owner: | Smoczynski, Jeffrey | Approver(s): | White, David | | |



| | | | | | |
|-------------|--------------------------|---------------|------------|------------|---|
| Part No. | Box C | Project # | S-85-16-3 | Revision : | 0 |
| Board Grade | ECT 61CB : Kraft | Date Created: | 11/17/2016 | | |
| I.D. | 23+3/8 x 19+3/8 x 17+3/4 | | | | |

View outside



| | | | | | |
|-------------|--------------------------|---------------|------------|------------|---|
| Part No. | Box D IPC | Project # | S-85-16-4 | Revision : | 0 |
| Board Grade | ECT 82CB : Kraft | Date Created: | 11/17/2016 | | |
| I.D. | 47+3/8 x 19+3/8 x 17+3/4 | | | | |

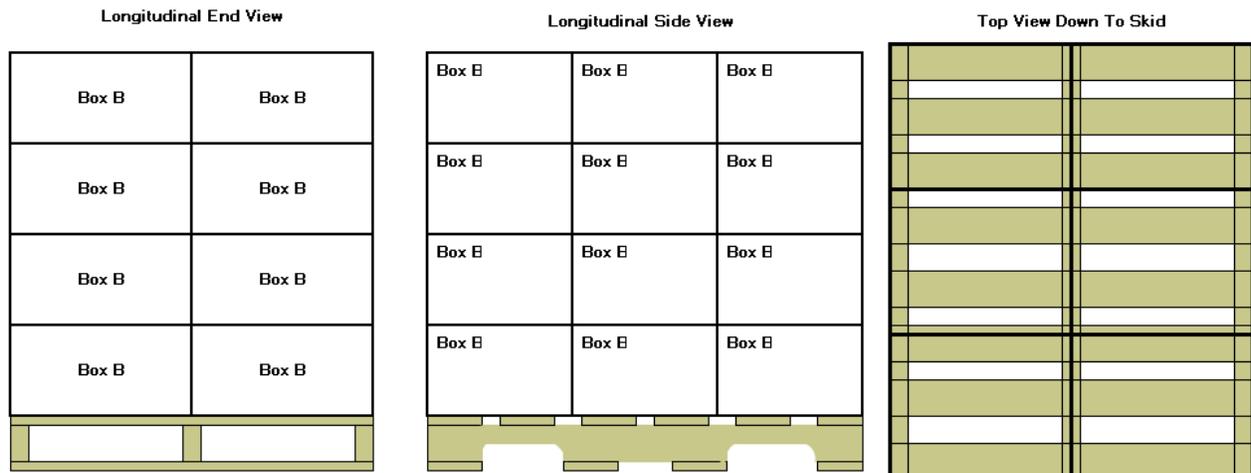
View outside

Global Distribution Center Shipping Requirements

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|-------------------|---|-----------------|--------------|-----------|---|
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| Department: | Purchasing | | | | |
| Area(s): | All Distribution Centers | | | | |
| Standard Element: | ISO 9001-2015 : 8 Operation : 8.2 Requirements for products and services : 8.2.2 Determining the requirements for products and services | | | | |
| Owner: | Smoczynski, Jeffrey | Approver(s): | White, David | | |

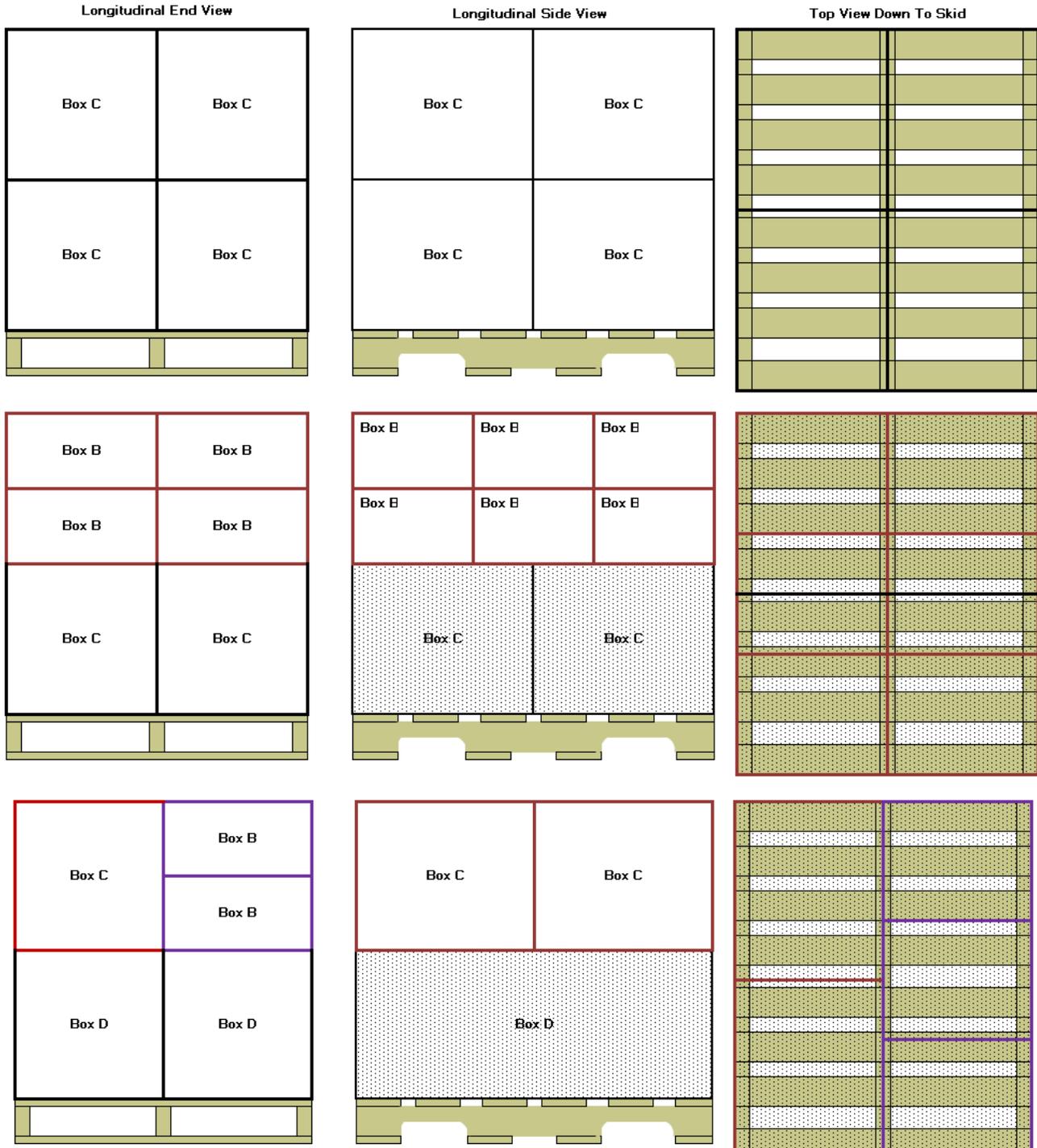
6.4 Pallet and Case Box Unitization

- 6.4.1 Box dimensions and board characteristics as defined in section 6.3 were developed to enable suppliers to unitize boxes on the prescribed pallet in a flexible manner based on quantity of product purchased by Federal-Mogul. These requirements also enable our distribution centers to receive and put away product in a standard and productive manner.
- 6.4.2 The supplier is responsible for selecting and utilizing the case box that best fits their product for quantity, size and weight. If there is a concern about the usage of the boxes as specified based on these characteristics for their product, the supplier must contact the Quality or Inventory Control representative at the facility they are shipping to as identified in section 4.0 above to discuss and get approval on potential alternatives.
- 6.4.3 The quality of the product being received into Federal-Mogul is of utmost importance to our company and our customers. Use of corner posts are required when the product being shipped is done via rail or sea methods and may/will be double stacked in transit.
- 6.4.4 Pallets that cannot be double stacked must be clearly marked with a cone or other identification method to prevent the possibility of double stacking while in transit. This is a requirement of all suppliers domestic or international.
- 6.4.5 Slip sheets are required between rows when using and stacking Box styles A, B and C.
- 6.4.6 These boxes are designed with edge strength sufficient to stack product in a column as required by Federal-Mogul. When stacking smaller boxes on top of larger ones all care must be utilized to keep edges aligned where possible to maintain unit strength. There will be some instances where edges will cross, this is anticipated and one reason for the ECT requirement indicated. Examples of these stack patterns are shown below in Examples - 6.4.1.
- 6.4.7 No product is allowed to be hanging over the outside edge of the pallet.
- 6.4.8 When stacking and unitizing boxes on a pallet, each box is required to carry only one part number, there are no exceptions to this requirement.
- 6.4.9 If the shipment does not fill a pallet completely to dimensions illustrated in Table 2 above, then we request that suppliers stack product to a height of no more than 25 inches, (635 MM); even if that requires two pallets versus one. This will also assist with containerization and storage.
- 6.4.10 Case Boxes must be marked as specified in the following sections, as you unitize and stack material, box labels shall be facing toward the outside edge of the stack. In the case of Box A, which can be stacked where there are boxes without an outside view; labels shall be uniformly placed towards the longitudinal end of the pallet as shown in the following exhibits.
- 6.4.11 Examples – 6.4.1 below represent stacking patterns that are indicative of what and how the specified boxes can be utilized by our suppliers, but they are not all inclusive. As is normal procedure for pallet or crate loading, heavier items should be stacked in the unit on bottom, with lighter boxes on top.



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| Standard Element: | ISO 9001-2015 : 8 Operation : 8.2 Requirements for products and services : 8.2.2 Determining the requirements for products and services | | | | |
| Owner: | Smoczynski, Jeffrey | Approver(s): | White, David | | |





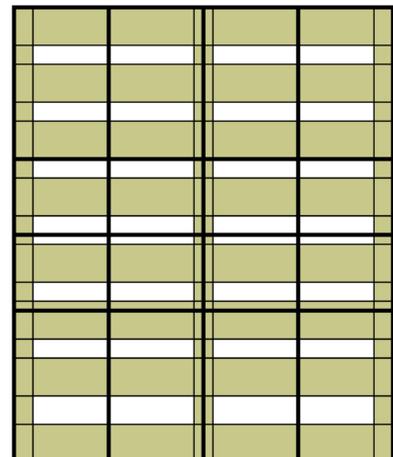
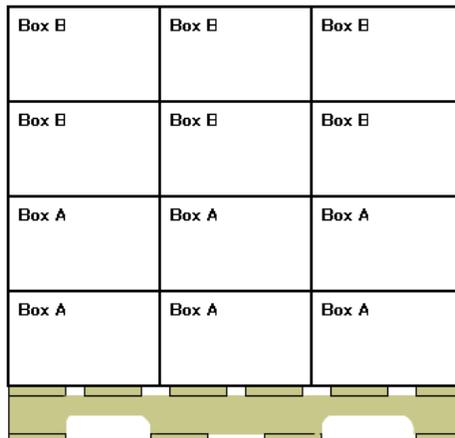
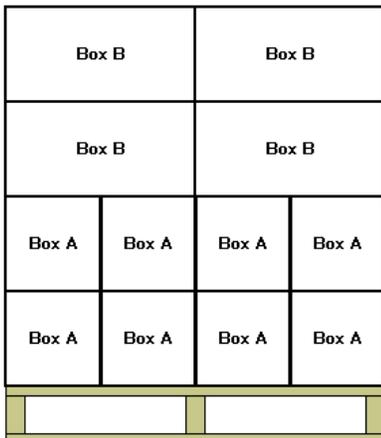
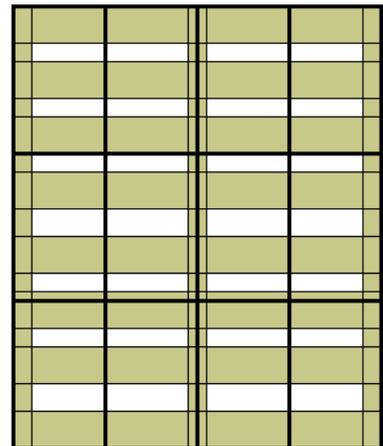
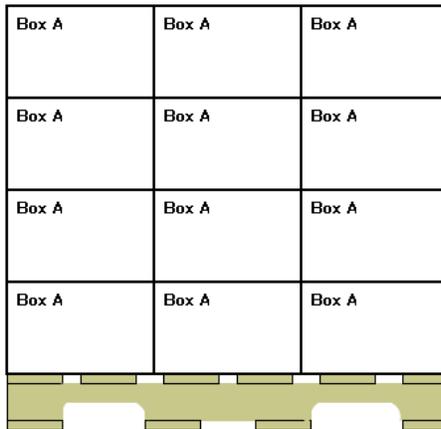
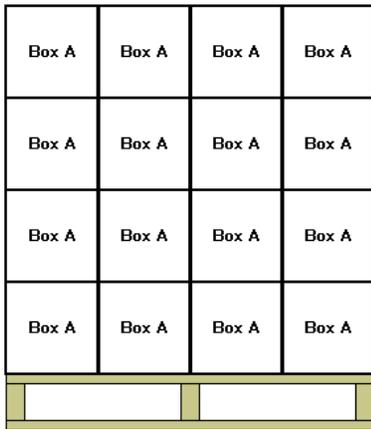
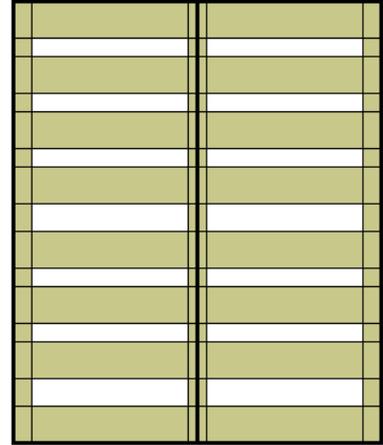
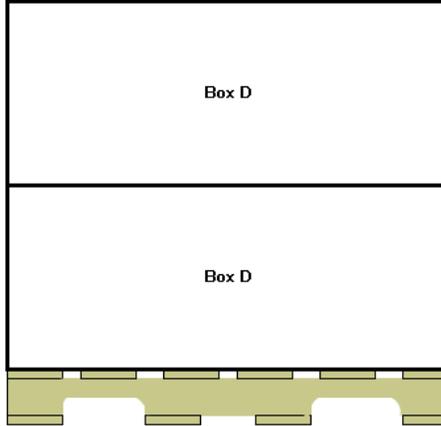
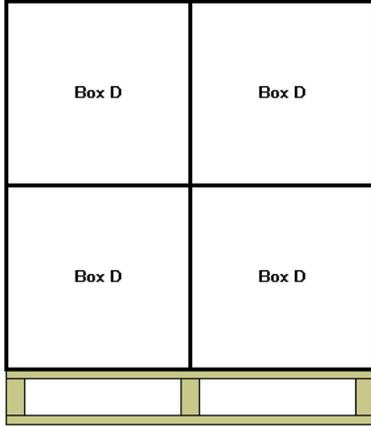
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| Standard Element: | ISO 9001-2015 : 8 Operation : 8.2 Requirements for products and services : 8.2.2 Determining the requirements for products and services | | | | |
| Owner: | Smoczynski, Jeffrey | Approver(s): | White, David | | |

Longitudinal End View

Longitudinal Side View

Top View Down To Skid



Global Distribution Center Shipping Requirements

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| Department: | Purchasing | | | | |
| Area(s): | All Distribution Centers | | | | |
| Standard Element: | ISO 9001-2015 : 8 Operation : 8.2 Requirements for products and services : 8.2.2 Determining the requirements for products and services | | | | |
| Owner: | Smoczynski, Jeffrey | Approver(s): | White, David | | |

7 LABELING REQUIREMENTS

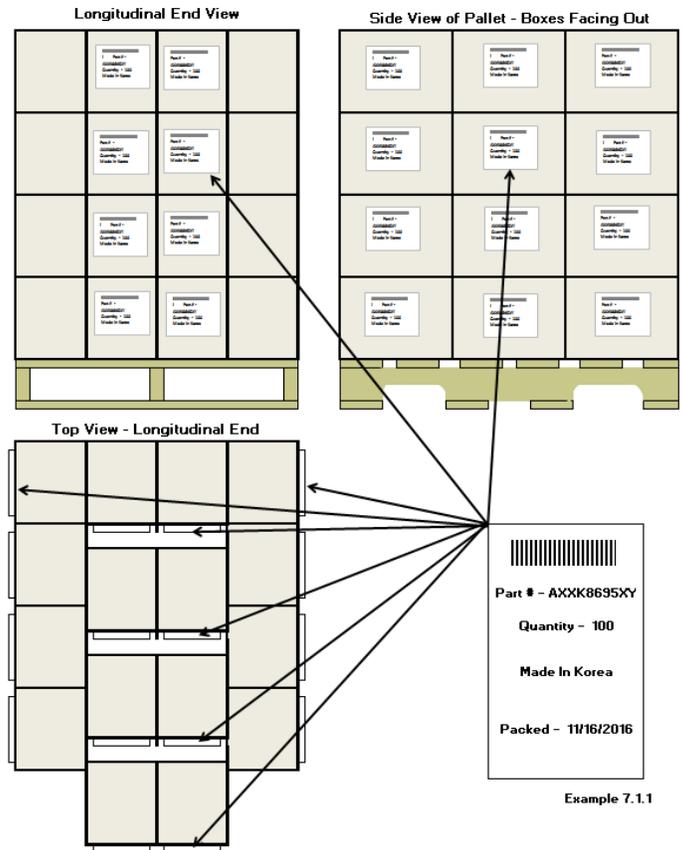
7.1 Case Box Labels

7.1.1 Case boxes can hold finished product in Unit Boxes or loose bulk product. Each case box on a pallet received by Federal-Mogul must have a human readable label in English identifying the following items:

- 7.1.1.1 Federal-Mogul part number.
- 7.1.1.2 Quantity in box.
- 7.1.1.3 UPC-C scannable bar code reflecting same.
- 7.1.1.4 Country of Origin.
- 7.1.1.5 Date item packed for shipment and labeled.

7.1.2 The label for each case box shall be on the outside face of any box on the pallet so positioned.

7.1.3 Any case box without an outward facing side will need to have their box label located on the side facing the longitudinal end of the pallet. All inner labels must be facing towards the same end. Example 7.1.1 shows how labels should be affixed to the outside of the boxes.



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| Owner: | Smoczynski, Jeffrey | Approver(s): | White, David | | |

7.2 Unit Box Labels

- 7.2.1 Unit box label formats are established by the brand management of the product. The Sales and Marketing groups will define formats and content. Specifications for such should be provided by the Purchasing and Product Engineering groups during the quotation process.
- 7.2.2 Unit boxes generally hold finished products in a count of one per box, unless it is a kit box that may hold more than one finished good, (Example – Shim Stock).
- 7.2.3 Unit box labels if not specified by brand management must be on a label stock that fits the box and allows for the placement of the following information.
- 7.2.3.1 Federal-Mogul part number.
 - 7.2.3.2 Quantity in box.
 - 7.2.3.3 UPC-A scanable bar code reflecting same.
 - 7.2.3.4 Country of Origin.
 - 7.2.3.5 Date item packed for shipment and labeled.
 - 7.2.3.6 Customer part number when identified and provided.

7.3 Master Label Requirements

- 7.3.1 Master Labels are requested when a supplier ships a pallet with **one** part number on it, but in several case boxes. This label does not take the place of a Case Box Label, but allows receiving to scan one Master Label versus several Case Box Labels, speeding up the receiving process.
- 7.3.2 The Master label must be in a human readable format, in English and printed on label stock in one to two preferred colors that will signify it as a Master label, those colors being light Yellow or light Orange.
- 7.3.3 The format of a Master Label is below in Example 7.3.1. When the Master Label is printed it must include the designation of Master Label printed on the top of the label. This is in addition to the content defined in 7.3.4 following.
- 7.3.4 The Master Label includes the following items based on configuration of the pallet:
- 7.3.4.1 A scanable and readable Federal-Mogul Part Number is required. If the supplier opts to put their part number on the label, that is acceptable, however the F-M part number must be on the label.
 - 7.3.4.2 A scanable and readable quantity of product, all product on the pallet.
 - 7.3.4.3 A readable date the label is made and printed, usually system generated.
 - 7.3.4.4 A scanable and readable Federal-Mogul Supplier Code. If a supplier is unsure of their code, these are always available on the Purchase Order.
 - 7.3.4.5 The country of origin for the product. We strongly stress the fact that origins need to be in line with the international agreements for customs regulations / ISO-codes. Therefore the origins stated must conform to these ISO codes and per part number on the invoices. These origins must be the same as in the EDI transaction. Of course, the “Administrative” origin must be equal to the origin marked on the product itself.

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| Owner: | Smoczynski, Jeffrey | Approver(s): | White, David | | |

7.3.5 Placement of the Master Label are defined for Packaged and Bulk Product, they are

- 7.3.5.1 Packaged Product - Master labels are to be placed on a piece of corrugated (not directly attached to shrink wrap or cases) and should be attached to the top center of the pallet entry side (40"/102cm side) so that all information is visible when looking at the pallet.
- 7.3.5.2 Bulk Product - Master label must be placed directly to the top center of a case on the top side of the pallet, or on a pallet entry side of a boot or crate.



Figure 4: Example 7.3.1

8 ADMINISTRATIVE REQUIREMENTS

8.1 Invoice Requirements

- 8.1.1 Pursuant to Federal-Mogul terms and conditions, which are provided as part of Federal-Mogul Purchase orders, the following Invoice requirements are defined to insure consistency in application for our Distribution Centers.
- 8.1.2 Suppliers when invoicing Federal-Mogul must provide the following on their documents to insure payment for product or services:
 - 8.1.2.1 Supplier Name and Address recognized on Purchase Order
 - 8.1.2.2 Supplier Number as provided as part of the commercial relationship, provided on Purchase Order.
 - 8.1.2.3 Federal-Mogul Purchase Order Number
 - 8.1.2.4 Listing of part(s) provided and invoiced for by Federal-Mogul part numbers.
 - 8.1.2.5 Quantity of each part as indicated in section 8.1.2.4 with extended total of price in US Dollars.
 - 8.1.2.6 Invoice number from supplier.

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| Department: | Purchasing | | | | |
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| Standard Element: | ISO 9001-2015 : 8 Operation : 8.2 Requirements for products and services : 8.2.2 Determining the requirements for products and services | | | | |
| Owner: | Smoczynski, Jeffrey | Approver(s): | White, David | | |

8.1.2.7 Proof of shipment referencing the following documents where used and available:

- 8.1.2.7.1 Container Number
- 8.1.2.7.2 Shipper or Bill of Lading Number
- 8.1.2.7.3 Packing List Number
- 8.1.2.7.4 Custom Documents

8.1.3 Example 8.1.1 below details an example of an Invoice that meets Federal-Mogul requirements.

| | | | | | |
|---|------------------------|--------------------------|--|----------------------|----------------------|
| Invoice No. | EX/015/P | Container Number: | BY AIR | Packing List: | XXXX |
| Ship to: | | | Ship from: | | |
| Federal-Mogul corporation 1151 Morton Lane Maysville, KY 41056, USA | | | Federal-Mogul Goetze (India) LTD Rajpura Road, Bahadurgarh Patiala-147021, Punjab (India). | | |
| Vendor | 01086 | Bill of Lading | 2010040 | Date | |
| Total Pallets | 24 | Total Qty | 472 | Ship Date | |
| | | | | | |
| F-M Part No. | Vendor Part No. | BR/ST/F | Quantity | PO# | Container No. |
| 09592PPNX | 3U1E6110 | 0211 | 184 | 816440 | 8713 5793 |
| 09595PPNA | YU1L6110 | 0211 | 288 | 816439 | 8713 5793 |

Figure 5: Example 8.1.1

8.2 Electronic Notification Requirements

- 8.2.1 The preferred process for transferring delivery information, including Country of Origin, Quantity and Federal-Mogul part number information is through an ASN or Advanced Shipping Notice.
- 8.2.2 How to get information on doing an ASN.
- 8.2.3 Where to send the ASN and through what media.
- 8.2.4 What is the advantage of doing an ASN versus just including a packing slip and information noted in 8.1.2.7 above?

8.3 Customs / Import Shipping Requirements

- 8.3.1 Customs and Importation requirements are the responsibility of the supplier of choice to meet for the country being shipped into. Suppliers unfamiliar with requirements can go to a Federal-Mogul website to access information on those requirements.

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| Area(s): | All Distribution Centers | | | | |
| Standard Element: | ISO 9001-2015 : 8 Operation : 8.2 Requirements for products and services : 8.2.2 Determining the requirements for products and services | | | | |
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8.3.2 The website will provide access to the following information:

- 8.3.2.1 This document on Incoming Packaging Requirements
- 8.3.2.2 Routing Guides for use in shipping to Federal-Mogul sites.
- 8.3.2.3 US Custom Document Requirements
- 8.3.2.4 Federal-Mogul Document Requirements
- 8.3.2.5 Guidelines for Importation of Wood Packaging – ISPM 15 Requirements
- 8.3.2.6 Custom Trade Partnership Against Terrorism Requirements – C-TPAT Security Profile

8.3.3 Example 8.3.1 below illustrates the process for obtaining Customs and Importation information on the Federal-Mogul website:

Information for the following countries can be accessed via the Federal-Mogul Website. Utilize the instructions to the right to reach this site and the information referenced in Section 7.3.2 above.

Asian Operations
European Operations
North American Operations
South American Operations

Access your Web browser and enter the following address:
<http://www.federalmogul.com>

Enter

Select - 

Enter

Select – About us

Enter

Select – Suppliers

Enter

Select – Shipping and Tax

Enter

Select Suppliers Imports

Enter

Figure 6: Example 8.3.1

9 TRAILER LOADING REQUIREMENTS

9.1 Container or Trailer Loading Requirements

- 9.1.1 When shipping a single trailer to more than one Federal-Mogul location, the freight needs to be loaded according to the route; with the final stop in the nose, first stop on the tail and others stops loaded in sequence by planned stops.
- 9.1.2 Shipping documents, including Packing Slips, Bills of Material or ASN's must indicate the location of each receiving location's material in the trailer or container.
- 9.1.3 Within reason, the supplier along with the freight forwarder should maximize the trailer cube or volume as much as possible.
- 9.1.4 The shipper when loading the trailer must eliminate as much potential for load shifting by placing material tight together in the trailer and reinforcing with chocks or other support methods when needed to secure the products.

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- 9.1.5 To facilitate loading and unloading, the preferred direction of the pallets in a trailer or container has the Longitudinal ends toward the rear or doors of the trailer, running parallel to the trailers sides. If maximization of a trailer is achieved by running the Longitudinal ends perpendicular to the sides of the trailer, the supplier must insure they are utilizing a required 4-Way pallet as indicated in section 5.1 above.
- 9.1.6 When shipping a mixed pallet of part numbers, these pallets must be loaded on the rear or near the doors to enable the receiving departments to unload them first
- 9.1.7 At no point is triple stacking of pallets allowed on a trailer.
- 9.1.8 When double stacking is required to maximize a trailer or container, the following requirements must be adhered to by the Suppliers and Freight Forwarders.
- 9.1.8.1 Pallets must be stacked in a column fashion to take advantage of the Edge Crush Strength of the Case Boxes specified above. While some cross running of edges is expected as discussed earlier, alignment of box edges is critical to pallet unitization strength.
- 9.1.8.2 When double stacking product in a trailer or container, the bottom pallet is **required** to be reinforced by upright corner supports as well as horizontal corner supports to decrease potential risk in shipment. Use of banding material to hold Case Boxes and supports in place is **required**.
- 9.1.8.3 Banding of Case Boxes onto pallets is the expected method of fastening the load to the pallet. For product shipped within the Continental United States, the use of stretch wrap is allowed to hold the load onto the pallet.
- 9.1.8.4 An outer container or cover used to add strength or to protect the product in transit if utilized should be connected via fasters to the pallet for shipment.
- 9.1.8.5 Because of weight or size of product, if a supplier cannot ship the product in a double stacked method as indicated, they must contact and get approval of any other method by contacting the receiving locations Quality or Inventory Manager as indicated in section 4 above. Alternate methods are not permitted until reviewed and authorized by the receiving location.

9.2 Seals for Shipping Containers

- 9.2.1 All seals used to secure Shipping Containers or Full Truck Loads must meet the ISO/PAS 17712 Certification Requirements.
- 9.2.2 Seals must be affixed prior to the shipment leaving the source destination.
- 9.2.3 The Seal number must be documented on the Bill of Lading or shipper when sent.

10 NON-CONFORMANCE / DISCREPANCIES

10.1 Types of Non-Conformances

- 10.1.1 The following information will document the expectations, penalties and corrective action requirements of a Non-Conformance identified by Federal-Mogul from the supplier's product or services to our customers or our locations.
- 10.1.2 There are two types of Non-Conformances that will be addressed in this document, they are:
- 10.1.2.1 Quality or Product Related
- 10.1.2.2 Adherence to Service Requirements by Supplier

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- 10.1.3 Quality or Product Related non-conformances will be handled by the Quality Procedures of the business and location. Issues found will be governed by those procedures, including supplier contact, containment of problem and product, problem definition, corrective actions, product returns, inventory replacement, cost or penalties.
- 10.1.4 Adherence to Service Requirements and Procedures by the Supplier will be monitored and administrated by the Purchasing, Quality, Receiving and Packaging departments within the Federal-Mogul location. The performance of a supplier is published by Federal-Mogul through a system called SupplyNet. Access can be obtained through the Purchasing group.
- 10.1.5 In general, a non-conformance of a Service Requirement or Procedure means the supplier did not adhere to requirements documented and published governing the relationship with Federal-Mogul. In the case of this procedure, "Global Distribution Center Incoming Packaging Requirements", not meeting the items contained within this procedure could result in a Supplier Corrective Action Request, (SCAR) within Supply Net being issued to the supplier for corrective actions on the non-compliance. If the supplier fails to remedy the issue published with the SCAR, then the supplier may receive penalties or costs to remedy their non-conformance to procedures if further SCAR's are issued.
- 10.1.6 When containers are received damaged upon arrival to Federal-Mogul, the receiving department will document those findings on the Packing Slip or CMR according to international rules and will request the Truck Drivers signature when available on the document to confirm the findings. Pictures should be taken of the damages and transmitted to the trucking company and supplier, with the originals maintained by the receiving group of the impacted facility.
- 10.1.7 Recovery of damages will be handled by the Materials or Import Desks and will start with the formal damage investigation and completion of said report. Initial claims will be filed with the freight carrier, however, if substandard or non complying packaging was utilized then the report and credit memos will be filed with the supplier of the product. The charges may include beyond the cost of the product any labor or other costs necessary to unload and receive for processing the material in question.
- 10.1.8 The finance department will debit outstanding payments for said costs upon confirmation of the issue by Receiving and Quality departments. These will be handled through accounts payable.
- 10.1.9 When damages are hidden upon receipt and found after unloading, the Receiving, Packaging and Quality departments will adhere to our review procedures including containment of the product, analysis of the issue and then processing of a claim if so deemed.
- 10.1.10 Damages due to incorrect internal handling or other reasons by Federal-Mogul will not end in a claim or impact the Supplier's Supply Net Score. If Federal-Mogul contacts the supplier to ask for assistance with a re-work of the goods, Federal-Mogul will bear the transportation and other costs if agreed to by the Purchasing, Materials and Quality departments of F-M.
- 10.1.11 Federal-Mogul maintains the right of refusing a shipment when a supplier violates published Environmental or other legal requirements, puts our associates at risk due to the condition or state of the load, or is repeatedly negligent in failing to adhere to Federal-Mogul requirements as a course of business.

10.2 Penalties for Non-Compliance to Incoming Packaging Requirements

- 10.2.1 A continued or repeated performance of failing to adhere to the "Federal-Mogul Distribution Incoming Packaging Requirements" will subject the supplier to penalties for failure to comply or handling costs if labor or other resources are required to rectify the issue or discrepancy.
- 10.2.2 The following as illustrated in Example 10.2.1 are representative of failure types and the consequences, but are not all inclusive. Federal-Mogul maintains the right of seeking recovery for continued failure to comply with stated procedures and legal regulations from a supplier if they are found in violation of said requirements.

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| Discrepancy Type | Discrepancy problem | Chargeback |
|------------------------|---|--|
| ASN / Purchase order | Fails to provide ASN as required. | \$250 |
| ASN / Purchase order | Lists incorrect or wrong PO number on documents. | \$250 |
| Paperwork Requirements | Paperwork does not reference container or shipment number to match invoice for material. | \$250 |
| Paperwork Requirements | No Packing List, CMR or Bill of Lading present upon receipt of shipment in lieu of ASN listing contents. | \$250 |
| Paperwork Requirements | Paperwork does not reference F-M purchase order or is the incorrect one. | \$250 |
| Paperwork Requirements | When required, Packing List, CMR or Bill of Lading does not reference Seal number on trailer. | \$250 |
| Paperwork Requirements | Paperwork has more than one Purchase Order Number on Packing List, CMR or Bill of Lading. | \$250 |
| Paperwork Requirements | Paperwork does not provide Federal-Mogul part numbers or quantities on Packing List, CMR or Bill of Lading. | \$250 |
| Packaging Requirements | Supplier does not utilize a skid to the dimensions required by Federal-Mogul distribution center. | \$250 |
| Packaging Requirements | Fails to mark Federal-Mogul Part Numbers and Quantity on outside of cartons as required. | \$250 |
| Packaging Requirements | Supplier puts more than one part number in a box. | \$250 |
| Packaging Requirements | Supplier does not follow requirements for max amount of part numbers on a pallet. | \$250 and labor cost to separate part numbers. |
| Packaging Requirements | Supplier does not vertically stack like part numbers. | \$250 and labor cost to restack pallet. |
| Packaging Requirements | Supplier does not stack product to the height requirements identified for the facility shipped to. | \$250 and labor cost to restack pallet. |
| Packaging Requirements | Product is received in non-conforming packaging. | \$250 |
| Product | Count difference between billed and actual. | \$250 |
| Product | Quality issue requiring containment, sorting or additional inspection of product. | \$500 and labor cost to inspect and process. |
| Product | Provide labor to rework product to specification. | \$50 / Hour / Person |
| Product | Provide supervision of manpower of rework. | \$75 / Hour / Person |
| Product | F-M part number is not on product when specified on purchase order. | \$500 |

Labor costs are calculated at \$50 Per Hour Per Person Required for Work.

Figure 7: Example 10.2.1

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11 ENVIRONMENTAL, HEALTH AND SAFETY

11.1 Federal-Mogul Commitment to EHS

11.1.1 Federal-Mogul will provide a safe and healthy workplace and will protect the environment in so far as it is affected by our activities, products or services.

11.1.2 To meet our commitments, Federal-Mogul will:

- 11.1.2.1 Meet or exceed applicable environmental, health and safety requirements imposed by law and any EHS standards or procedures which the company adopts.
- 11.1.2.2 Manage EHS in accordance with ISO 14001, and continually improve the EHS management system and overall EHS performance in pursuit of the company's goal of zero defects in all that we do.
- 11.1.2.3 Develop and implement best practices for worker and environmental protection, including practices to prevent pollution and minimize waste.
- 11.1.2.4 Inform all employees of this policy and provide the training and resources necessary to implement it.
- 11.1.2.5 Develop and implement appropriate EHS objectives and targets as part of our various business plans.
- 11.1.2.6 Employ appropriate EHS performance measures and recognize exemplary accomplishments.
- 11.1.2.7 Conduct periodic self-evaluations and audits of EHS compliance and of EHS management systems, the results of which will be considered during periodic management reviews of the adequacy of such systems.
- 11.1.2.8 Identify potentially applicable improved EHS management practices, through benchmarking and participation in appropriate cooperative programs to develop such improvements.
- 11.1.2.9 Identify, consider and minimize -in research and development, acquisition, and capital project review and approval activities - potential EHS impacts of new and modified products and production processes.
- 11.1.2.10 Consider EHS performance in the selection of suppliers and contractors and work cooperatively with them so that they will support Federal-Mogul's adherence to this policy.
- 11.1.2.11 Work constructively with government regulators and concerned citizens on EHS issues.

11.2 Supplier Expectations

- 11.2.1 In accordance with our commitment to our policy and ISO 14001 requirements, we try to avoid or to minimize any effect to the environment caused by our daily operations. We have the ambition and commitment to work with our suppliers in a co-operative manner to meet our goals while they play as they play a vital role in the success of our business.
- 11.2.2 Our expectations of our suppliers is simply that they perform their planning for and choice of packing materials and handling of excess and rejected materials in such a way that the total environmental impact is minimized for the delivered products and services they provide.
- 11.2.3 Above all, we expect our supplier to fully consider recyclability and the use of recycled materials when selecting materials and packaging design solutions. Examples of these expectations include but are not limited to the following items:
 - 11.2.3.1.1 No UV coatings used on cartons for health reasons.
 - 11.2.3.1.2 The use of plain shipping cartons which are reusable and or recyclable.
 - 11.2.3.1.3 The use of the required pallets to promote reused within the value stream.
 - 11.2.3.1.4 Use of Plastic Strapping to secure loads to prevent cuts and to promote recycling.
 - 11.2.3.1.5 Use of environmentally friendly filling materials to take up space in boxes when needed.

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12 TRANSPORTATION REQUIREMENTS

12.1 Carrier Requirements and Resources

12.1.1 As a vital cost of doing business, freight and transportation costs are key areas for control of spend. To facilitate selection and reduce costs Federal-Mogul provides our suppliers with Routing Guides for selection of approved providers. A supplier can access the guides as shown in Example 7.3.1 above. Follow the same process and on the Shipping/Tax screen select one of the following items for selection of freight providers approved by Federal-Mogul.

12.1.1.1 Routing Guides for North America

12.1.1.2 Routing Guides for Germany and EMEA

13 APPENDIX

13.1 Site Specific Listings

13.1.1 The following table contains site specific information for our suppliers shipping into a specific Distribution Center and is formatted to provide a quick reference guide. The supplier must reference this document to insure they are getting the most accurate information for their specific ship to site

13.1.2 The tables are set up for Cross Dock, Labeling, Bulk Material, Finished Packaged Product and Stacking requirements.

13.1.3 Example 13.1.1 – Additional and Specific Site Requirements by Area and Site

13.1.3.1 North & South American Operations

| | Requirements | Indianapolis DC | Jacksonville DC | Smyrna DC | York DC | Moreno Valley DC | New Jersey DC | Mexico City DC | Skokie DC | La Plata DC |
|------------|--|-----------------|-----------------|-----------|---------|------------------|---------------|----------------|-----------|-------------|
| Cross Dock | Cross-docked product must meet Canadian Tire and Wal-Mart customer vendor agreement specs. | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Labeling | When Case Boxes are utilized by the supplier, case labels are required. | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| | Barcode labels must be human readable in English and follow AIAG requirements for clarity and content. | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| | All product shipped on a pallet that is covered either in plastic, fiberboard or in a crate will require a case label for each part number on the skid placed on the longitudinal end of a pallet. | YES | YES | YES | YES | YES | YES | YES | YES | YES |

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| Requirements | | Indianapolis DC | Jacksonville DC | Smyrna DC | York DC | Moreno Valley DC | New Jersey DC | Mexico City DC | Skokie DC | La Plata DC | |
|--|---|-----------------|-----------------|-----------|-----------|------------------|---------------|----------------|-----------|-------------|-----|
| | Master Label requested when shipping one part bulk or one part finished packed product on a pallet. | YES | YES | YES | YES | YES | YES | YES | YES | YES | |
| Bulk Product for Packaging | F-M part number, quantity and tare weight must be listed on pallet or crate when used. | YES | YES | YES | YES | YES | YES | YES | YES | YES | |
| | Heaviest part should be placed on bottom of pallet with part numbers stacked above following edge stacking guidelines. | N/A | YES | YES | YES | YES | N/A | YES | YES | YES | |
| | Pallet weight not to exceed: | 2,500 lbs | 2,500 lbs | 2,500 lbs | 2,500 lbs | 2,500 lbs | 2,500 lbs | 2,500 lbs | 2,500 lbs | 2,500 lbs | |
| | Maximum number of parts per pallet is 5, individually boxed, and vertically stacked. No layering allowed for part numbers. | YES | YES | YES | YES | YES | N/A | YES | YES | YES | |
| | Specialized crates or pallets for business or product requirements must be agreed to by supplier and Federal-Mogul prior to shipment. | YES | YES | YES | YES | YES | N/A | YES | YES | N/A | |
| | Suppliers must adhere to the stacking heights of product for each facility. Any changes or special circumstances must be reviewed with the facility prior to shipment. Any change in structure not agreed to in advance will be refused upon arrival. | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| | Do not mix bulk and finished packaged product. | YES | YES | YES | YES | YES | N/A | YES | YES | YES | |
| | Must use layer pads or sheets on every other layer for shipment integrity. | YES | NO | YES | YES | YES | YES | YES | YES | YES | |
| | Loads must be secured with banding, stretch wrap may be used, but not as the primary securing method of the load to the pallet. | YES | YES | YES | YES | YES | YES | YES | YES | YES | |
| | Pallets must be covered in a plastic sheet or stretch wrap on top and sides to prevent damage or contamination during shipment. Protection should be secured to the pallet. | YES | YES | YES | YES | YES | YES | YES | YES | YES | |
| Do not mix part numbers in bulk boxes, 1 part per box. | YES | YES | YES | YES | YES | YES | YES | YES | YES | | |

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| Requirements | | Indianapolis DC | Jacksonville DC | Smyrna DC | York DC | Moreno Valley DC | New Jersey DC | Mexico City DC | Skokie DC | La Plata DC | |
|--|---|-----------------|-----------------|-----------|---------|------------------|---------------|----------------|-----------|-------------|-----|
| Finished Packaged Goods | When stacking boxes you must use layer pads or slip sheets every other layer | YES | NO | YES | YES | YES | YES | YES | YES | YES | |
| | Do not mix bulk and finished packaged goods on pallet or in a crate. | YES | YES | YES | YES | YES | YES | YES | YES | YES | |
| | The maximum number of finished packed goods is 5 on any pallet. | YES | YES | YES | YES | YES | YES | YES | YES | YES | |
| | Do not mix Brands on a pallet. | YES | YES | YES | YES | YES | N/A | NO | YES | NO | |
| | Part number must be facing out for identification. | YES | YES | YES | YES | YES | YES | YES | YES | YES | |
| | Layering for part numbers of packaged product is allowed. It is not for bulk. | YES | YES | YES | YES | YES | YES | YES | YES | YES | |
| | Suppliers must adhere to the stacking heights of product for each facility. Any changes or special circumstances must be reviewed with the facility prior to shipment. Any change in structure not agreed to in advance will be refused upon arrival. | YES | YES | YES | YES | YES | YES | YES | YES | YES | |
| | Interlocking of boxes in a stacking pattern is allowed to provide load security of Packaged Product. It is not allowed for bulk product where edge strength must be maintained. | NO | YES | NO | NO | NO | NO | YES | YES | YES | NO |
| | For domestic suppliers, stretch wrap 90 gauge or higher with a minimum of 5 wraps of film around the load securing it to the pallet is acceptable. | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| International suppliers must use banding to secure their loads and the load on the pallet should be covered or sleeved with triple wall cardboard (700 lb thickness), same dimension as a pallet and fully covered. It must be banded with plastic | YES | YES | NO | NO | NO | NO | NO | YES | YES | NO | |
| Stacking | Minimize the number of pallets shipped while adhering to the pallet make up contained in this document. | YES | YES | YES | YES | YES | YES | YES | YES | YES | |
| | Diagram of stacking should be sent and approved by Federal-Mogul (and meet F-M's pallet and pallet size requirements) before shipping. | YES | YES | YES | YES | YES | NO | YES | YES | YES | |

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| Standard Element: | ISO 9001-2015 : 8 Operation : 8.2 Requirements for products and services : 8.2.2 Determining the requirements for products and services | | | | |
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13.1.3.2 EMEA Operations

| | Requirements | Bradford DC | City West DC | Costlada DC | Ludwigsburg DC | Mondovi Racing DC | Moscow DC | Verona DC | Willebroek DC |
|--|---|-------------|--------------|-------------|----------------|-------------------|-----------|-----------|---------------|
| Cross Dock | Cross-docked product must meet Canadian Tire and Wal-Mart customer vendor agreement specs. | YES | N/A | N/A | NO | N/A | N/A | N/A | N/A |
| Labeling | When Case Boxes are utilized by the supplier, case labels are required. | YES | YES | YES | YES | N/A | YES | N/A | YES |
| | Barcode labels must be human readable in English and follow AIAG requirements. | YES | YES | YES | YES | YES | YES | YES | YES |
| | Pallets that are covered in plastic, fiberboard or a crate will require a case label for each part number placed on the longitudinal end of a pallet. | NO | YES | YES | NO | YES | NO | YES | YES |
| | Master Label requested when shipping one part bulk or finished product on a pallet. | NO | YES | YES | YES | YES | YES | YES | YES |
| Bulk Product for Packaging | F-M part number, quantity and tare weight must be listed on pallet or crate when used. | NO | N/A | YES | YES | N/A | N/A | N/A | N/A |
| | Heaviest part should be placed on bottom of pallet with part numbers stacked above following edge stacking guidelines. | YES | YES | YES | YES | N/A | N/A | N/A | N/A |
| | Pallet weight not to exceed: | 500 kg | 700 Kg | 2,500 lbs | 600 Kg | N/A | N/A | N/A | N/A |
| | Maximum number of parts per pallet is 5, individually boxed, and vertically stacked. No layering allowed for part numbers. | NO | N/A | YES | NO | N/A | N/A | N/A | N/A |
| | Specialized crates or pallets must be agreed to by supplier and Federal-Mogul prior to shipment. | NO | YES | YES | NO | N/A | N/A | N/A | N/A |
| | Suppliers must adhere to the stacking heights of product for each facility. Failure to do so will lead to product being refused at receipt by F-M. | YES | YES | YES | NO | N/A | N/A | N/A | N/A |
| | Do not mix bulk and finished packaged product. | NO | N/A | YES | YES | N/A | N/A | N/A | N/A |
| | Must use layer pads or sheets on every other layer for shipment integrity. | NO | YES | NO | NO | N/A | N/A | N/A | N/A |
| | Loads must be secured with banding, stretch wrap may be used, but not as the primary securing method of the load to the pallet. | YES | YES | YES | YES | N/A | N/A | N/A | N/A |
| | Pallets must be covered in a plastic sheet or stretch wrap on top and sides to prevent damage or contamination during shipment. Protection should be secured to the pallet. | NO | YES | YES | YES | N/A | N/A | N/A | N/A |
| Do not mix part numbers in bulk boxes, 1 part per box. | NO | N/A | YES | NO | N/A | N/A | N/A | N/A | |

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| Department: | Purchasing | | | | |
| Area(s): | All Distribution Centers | | | | |
| Standard Element: | ISO 9001-2015 : 8 Operation : 8.2 Requirements for products and services : 8.2.2 Determining the requirements for products and services | | | | |
| Owner: | Smoczynski, Jeffrey | Approver(s): | White, David | | |

| Requirements | | Bradford DC | City West DC | Coslada DC | Ludwigsburg DC | Mondovi Racing DC | Moscow DC | Verona DC | Willebroek DC |
|--------------------|---|-------------|--------------|------------|----------------|-------------------|-----------|-----------|---------------|
| Finished Packaging | When stacking boxes you must use layer pads or slip sheets every other layer | NO | YES | NO | NO | YES | YES | NO | YES |
| | Do not mix bulk and finished packaged goods on pallet or in a crate. | YES | N/A | YES | NO | YES | N/A | N/A | YES |
| | The maximum number of finished packed goods is 5 on any pallet. | NO | NO | YES | NO | N/A | NO | NO | N/A |
| | Do not mix Brands on a pallet. | NO | YES | YES | NO | YES | NO | YES | YES |
| | Part number must be facing out for identification. | YES | YES | YES | YES | YES | YES | YES | YES |
| | Layering for part numbers of packaged product is allowed. It is not for bulk. | YES | YES | YES | YES | YES | YES | YES | YES |
| | Suppliers must adhere to the stacking heights of product for each facility. Any changes or special circumstances must be reviewed with the facility prior to shipment. Any change in structure not agreed to in advance will be refused upon arrival. | YES | YES | YES | NO | YES | YES | YES | YES |
| | Interlocking of boxes in a stacking pattern is allowed to provide load security of Packaged Product. It is not allowed for bulk product where edge strength must be maintained. | NO | YES | YES | YES | YES | YES | YES | YES |
| | For domestic suppliers, stretch wrap 90 gauge or higher with a minimum of 5 wraps of film around the load securing it to the pallet is acceptable. | YES | YES | YES | YES | N/A | YES | YES | N/A |
| | International suppliers must use metal or plastic banding to secure their loads. Loads shall be covered or sleeved with triple wall cardboard (700 lb thickness), same dimension as a pallet and fully covered. | YES | YES | YES | YES | YES | YES | YES | YES |
| Stacking | Minimize the number of pallets shipped while adhering to the pallet make up contained in this document. | YES | YES | YES | YES | YES | YES | YES | YES |
| | Diagram of stacking should be sent and approved by Federal-Mogul (and meet F-M's pallet and pallet size requirements) before shipping. | NO | YES | YES | NO | YES | NO | YES | YES |

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| Department: | Purchasing | | | | |
| Area(s): | All Distribution Centers | | | | |
| Standard Element: | ISO 9001-2015 : 8 Operation : 8.2 Requirements for products and services : 8.2.2 Determining the requirements for products and services | | | | |
| Owner: | Smoczynski, Jeffrey | Approver(s): | White, David | | |

13.1.3.3 Asian Operations

| | Requirements | Beijing DC | Chongqing DC | Qingdao DC | New Delhi DC | Kunshan DC |
|--|---|------------|--------------|------------|--------------|------------|
| Cross Dock | Cross-docked product must meet Canadian Tire and Wal-Mart customer vendor agreement specs. | NO | NO | NO | NO | NO |
| Labeling | When Case Boxes are utilized by the supplier, case labels are required. | YES | YES | YES | YES | YES |
| | Barcode labels must be human readable in English and follow AIAG requirements. | YES | YES | YES | YES | YES |
| | Pallets that are covered in plastic, fiberboard or a crate will require a case label for each part number placed on the longitudinal end of a pallet. | YES | YES | YES | N/A | YES |
| | Master Label requested when shipping one part bulk or finished product on a pallet. | YES | YES | YES | YES | YES |
| Bulk Product for Packaging | F-M part number, quantity and tare weight must be listed on pallet or crate when used. | N/A | N/A | N/A | YES | N/A |
| | Heaviest part should be placed on bottom of pallet with part numbers stacked above following edge stacking guidelines. | N/A | N/A | N/A | YES | N/A |
| | Pallet weight not to exceed: | 1,000 Kgs | 1,000 Kgs | 1,000 Kgs | 1,000 Kgs | 1,000 Kgs |
| | Maximum number of parts per pallet is 5, individually boxed, and vertically stacked. No layering allowed for part numbers. | N/A | N/A | N/A | NO | N/A |
| | Specialized crates or pallets must be agreed to by supplier and Federal-Mogul prior to shipment. | N/A | N/A | N/A | YES | N/A |
| | Suppliers must adhere to the stacking heights of product for each facility. Failure to do so will lead to product being refused at receipt by F-M. | N/A | N/A | N/A | YES | N/A |
| | Do not mix bulk and finished packaged product. | N/A | N/A | N/A | YES | N/A |
| | Must use layer pads or sheets on every other layer for shipment integrity. | N/A | N/A | N/A | NO | N/A |
| | Loads must be secured with banding, stretch wrap may be used, but not as the primary securing method of the load to the pallet. | N/A | N/A | N/A | YES | N/A |
| | Pallets must be covered in a plastic sheet or stretch wrap on top and sides to prevent damage or contamination during shipment. Protection should be secured to the pallet. | N/A | N/A | N/A | YES | N/A |
| Do not mix part numbers in bulk boxes, 1 part per box. | N/A | N/A | N/A | YES | N/A | |
| Finished Packaged Goods | When stacking boxes you must use layer pads or slip sheets every other layer | NO | NO | NO | YES | NO |
| | Do not mix bulk and finished packaged goods on pallet or in a crate. | YES | YES | YES | YES | YES |
| | The maximum number of finished packed goods is 5 on any pallet. | NO | NO | NO | NO | YES |
| | Do not mix Brands on a pallet. | NO | NO | NO | NO | YES |
| | Part number must be facing out for identification. | YES | YES | YES | YES | YES |
| | Layering for part numbers of packaged product is allowed. It is not for bulk. | YES | YES | YES | YES | YES |

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| Area(s): | All Distribution Centers | | | | |
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| Owner: | Smoczynski, Jeffrey | Approver(s): | White, David | | |

| | Requirements | Beijing DC | Chongqing DC | Qingdao DC | New Delhi DC | Kunshan DC |
|----------|---|------------|--------------|------------|--------------|------------|
| | Suppliers must adhere to the stacking heights of product for each facility. Any changes or special circumstances must be reviewed with the facility prior to shipment. Any change in structure not agreed to in advance will be refused upon arrival. | YES | YES | YES | YES | YES |
| | Interlocking of boxes in a stacking pattern is allowed to provide load security of Packaged Product. It is not allowed for bulk product where edge strength must be maintained. | YES | YES | YES | YES | YES |
| | For domestic suppliers, stretch wrap 90 gauge or higher with a minimum of 5 wraps of film around the load securing it to the pallet is acceptable. | NO | NO | NO | NO | NO |
| | International suppliers must use metal or plastic banding to secure their loads. Loads shall be covered or sleeved with triple wall cardboard (700 lb thickness), same dimension as a pallet and fully covered. | NO | NO | NO | NO | NO |
| Stacking | Minimize the number of pallets shipped while adhering to the pallet make up contained in this document. | YES | YES | YES | YES | YES |
| | Diagram of stacking should be sent and approved by Federal-Mogul (and meet F-M's pallet and pallet size requirements) before shipping. | YES | YES | YES | NO | YES |

Figure 8: Example 13.1.1

13.2 Acceptable Wood Species by Classes

- 13.2.1 The required wood species allowed by Federal-Mogul Motorparts distribution centers are listed below by geographic locations, classes and species.
- 13.2.2 When building, repairing or remanufacturing wood pallets, suppliers should insure that pallet suppliers utilize species from these groups.
- 13.2.3 Species tables.

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| Department: | Purchasing | | | | |
| Area(s): | All Distribution Centers | | | | |
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13.2.3.1 North American Classes and Species of Accepted Wood

| Class Number | Name and Geographic Location | Wood Species |
|--------------|-----------------------------------|---|
| 1 | High Density Eastern NA Hardwoods | American Beech Green or White Ash Sweet Or Yellow Birch Black Cherry Black Locust Dogwood Slippery or Rock Elm Hickory Black, Red and Sugar Maple Persimmon Tan Oak |
| 2 | North American Various Hardwoods | Bigleaf Maple Oregon Ash |
| 3 | Medium Density Eastern Hardwoods | Black or Pumpkin Ash Hackberry Silver or Striped Maple Magnolia Paper Birch Sweetgum Sycamore Tupelo |
| 4 | Medium Density Western Hardwoods | California Black Oak Cascara Chinquapin Madrone Myrtle Oregon White Oak |
| 6 | Medium Density Western Hardwoods | Red Adler |
| 7 | Low Density Eastern Hardwoods | American Basswood Big Tooth or Quaking Aspen Buckeye Butternut Catalpa Balsam or Black Cottonwood Eastern Poplar |
| 21 | Low Density Eastern Oaks | Red Oak White Oak |

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| Area(s): | All Distribution Centers | | | | |
| Standard Element: | ISO 9001-2015 : 8 Operation : 8.2 Requirements for products and services : 8.2.2 Determining the requirements for products and services | | | | |
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| Class Number | Name and Geographic Location | Wood Species |
|--------------|------------------------------|---------------|
| 29 | Low Density Western Hardwood | Yellow Poplar |

13.2.3.2 European Classes and Species of Accepted Wood

| Class Number | Name and Geographic Location | Wood Species |
|--------------|------------------------------|--|
| 31 | Imported Hardwoods | Kapur Keruing Mengkulang |
| 32 | Dense European Hardwoods | Ash Beech Oak Plane |
| 34 | Medium Dense Hardwoods | Dutch Elm Hybrid Larch Cosican or Lodgepole Pine Black, Italian, Grey Poplar Redwood Silver Fir |

13.3 Grading of GMA Pallets

- 13.3.1 The following grades are commonly used within the pallet manufacturing industry to segregate the age and condition of recycled or reused pallets. Federal-Mogul utilizes these grades in conjunction with defined dimension requirements as noted in section 6.1.
- 13.3.2 Specialty pallets purchased to meet specific Customer requirements are always purchased as a New or Grade A Premium pallet.
- 13.3.3 Commercially recognized grades are as follows:
- 13.3.3.1 New pallets – Newly constructed pallets from the supplier with no wear evident. The pallet will:
- 13.3.3.1.1 Have a bright or unworn appearance of the wood.
- 13.3.3.1.2 Will be constructed of new wood that will have no splits, wane, decay or unsound knots in the construction of the pallet.
- 13.3.3.1.3 The pallet will have no shiners, or protruding nails in any board.
- 13.3.3.2 Premium Grade A Pallets – Reused or reworked pallets, often referred to as recycled pallets that are generally considered to be in the early stages of its life. These pallets will exhibit the following characteristics:
- 13.3.3.2.1 The wood will have a used or worn appearance, generally darker in color than new and appearing dirty with some wear of the cross boards.
- 13.3.3.2.2 The stringers will have no cracks and will show no repairs with block or metal bridges.
- 13.3.3.2.3 The pallet will have no shiners, no splits, wane, decay or unsound knots in the construction of the pallet.
- 13.3.3.2.4 The pallet will have all boards as required in the specification and will maintain the structural integrity of a new pallet.

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13.3.3.3 Grade A Pallets - The most readily available pallet is the Grade A Pallet. Having more cycles on it the pallet will exhibit more wear and tear from usage. The pallet will exhibit the following characteristics:

- 13.3.3.3.1 The appearance of the wood will show wear and be dirty or darker in color compared to newer pallets with less usage or cycles.
- 13.3.3.3.2 Stringers will have no cracks or splits that are repaired by blocks or with a parallel stringer to the cracked stringer. Metal bridges or plates may be used to strengthen a crack that does not go more than halfway through a stringer.
- 13.3.3.3.3 Deck boards top and bottom may show wear from usage, however they must be secure with the proper fasteners, have no shiners and have no cracks that are more than one inch into the board.
- 13.3.3.3.4 All boards must be present and secure.

13.3.3.4 Grade B Pallets - As anticipated, this grade contains pallets that are further along in their life cycle. While not having the full structural integrity of a New, A Premium or A pallet, they still maintain a majority of the load bearing capability. Characteristics of this grade include:

- 13.3.3.4.1 A worn appearance, having a dirty or worn appearance of the wood.
- 13.3.3.4.2 Having stringers that are repaired with a block or parallel stringer to one that is cracked or damaged. These may have cracks that are three quarters too fully through the original stringer, requiring what is often called a companion or double stringer.
- 13.3.3.4.3 Deck boards while in place may be replacement boards that do not have the same dimensions or thicknesses of the original boards.
- 13.3.3.4.4 Chips, nicks, dents, cracks or gouges are often in or on deck boards for this grade.
- 13.3.3.4.5 Due to usage, this grade of pallet may begin to see shiners that can cause snagging or tears to products when loaded on the pallet due to the protrusions from the wood.

13.3.3.5 Grade C Pallets - These pallets are not accepted by Federal-Mogul so we will not define that grade here, suffice to say they are worn.

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| Owner: | Smoczynski, Jeffrey | Approver(s): | White, David | | |

14 ASSOCIATED DOCUMENTS

Refer to site for associated documents.

- 14.1 Supplier Requirements Manual – Federal-Mogul
- 14.2 Purchasing Terms and Conditions – Federal-Mogul
- 14.3 Restricted Substance Management Standard – Federal-Mogul
- 14.4 Customs-Trade Partnership Against Terrorism, (C-TPAT)
- 14.5 Uniform Standard For Wood Pallets – 2014, National Wooden Pallet and Container Association, (NWPCA)
- 14.6 International Standard for Phytosanitary Measures – ISPM Number 15, International Plant Protection Convention, (IPPC)
- 14.7 Standard Test Methods for Pallets – ASTM D1185, Standard Test Methods for Nails – ASTM F680, ASTM International
- 14.8 Pallets for Materials Handling – Quality of fasteners for assembly of new and repair of used, flat wooden pallets – ISO 15629, Pallets for materials handling – Quality of assembly of new, wooden, flat pallets – ISO 18334, International Organization for Standardization, (ISO)

15 REVISION HISTORY

Changes are listed most recent first.

| Revision | Date | Details |
|------------|------------|---|
| 4 | 3/3/2017 | Added York, Moreno Valley, New Jersey, La Plata and Mexico City. Updated to consolidate EMAN and US for one Global Document. Updated and added references for EMEA plants, pallet specifications and boxes. Updated title to “Global Distribution Center Shipping Requirements” and owner to Jeffery Smoczynski and approver to David Wild. |
| 3 | 8/19/2015 | Updated contact number and pallet requirements for Indianapolis |
| 2 | 5/18/2015 | Added shipping requirements for Smyrna (1 invoice = 1 Container = 1 ASN) |
| 1 | 3/10/14 | Updated contact information for Smyrna, maximum mixed pallets for Indy to 5, owner Matthew Ceccardi and approved Lori Busha |
| 0.6 | 6/25/2014 | Updated document with New Motorparts division logo and format. |
| 04/04/2014 | 04/04/2014 | Updated pallet requirements, changed pallet pictures and drawings. |
| 12/04/2013 | 12/04/2013 | Actual Pictures added with shows the construction and entry points for a 4-Way Entry pallet. |
| 11/12/2013 | 11/12/2013 | Removed Canada from Purpose. Deck board width changed from 3 5/8 to 3.5”, added table about deck board size specification, table and diagram of 4-way Entry pallet construction. |
| 4/24/2013 | 4/24/2013 | Removed Canada from title, removed references to closed facilities, removed Supplier payment section, removed dead links, replacing with reference to location, Removed 4.62,4.63,4.64 |
| Release | 8/27/2010 | Converted English metrics to SAE |
| Draft | 8/18/2010 | Initial rough draft, added Sect 7.0, Change Implementation date, work in progress. |