

		MS 8444-04	
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### Additional Packing, Packaging, and/or Marking Requirements

1. **MATERIALS**: Bearings: ball, roller, needle, tapered cone, flange, and pillow block; chains: power transmission; and couplings, shafts, gears, pulleys/sheaves, universal joints, ball joints, sprockets, and similar items
2. **RANGE OF MATERIALS**: Saudi Aramco Materials covered in materials services group 200000, for the above materials description, and direct charge purchase items of the same kind.
3. **REQUIREMENTS**: These requirements are in addition to those in the material master descriptions, and Saudi Aramco Standard Packing Specifications and apply only to the materials indicated. Deviation from these requirements is not allowed without the Buyer's written approval.
  - 3.1 Items subject to exterior surface area deterioration from oxidation, corrosion, abrasion, or damage from contact with any items or materials shall be cleaned and then protected against damage by application of a compound on the exterior surface of the items. The compound shall provide protection against damage to the items and shall:
    - 3.1.1 Be compatible with the items and the surface to be protected.
    - 3.1.2 Be capable of being quickly and easily removed prior to use of the items.
    - 3.1.3 Not interfere in the end use of the items.
  - 3.2 The indicated items shall be wrapped individually in a barrier material for additional protection against dust and moisture.
  - 3.3 Single-unit items, and all items consisting of separable parts, shall be treated individually and packaged as single-unit items, as established in the purchase order.
    - 3.3.1 Single-unit item packages may be consolidated into larger parcels for packing purposes.

3.3.2 Each single-unit item package and all consolidated parcels must be identified as containing a single unit and as a consolidated parcel of single- unit items by using a tag-marking system that displays:

- a. Materials Master number(s) and issue unit, as established in the purchase order.
- b. Manufacturer's part number(s) and, if established in the purchase order, the superseded part number(s).
- c. Quantity of the single-unit packages (when single-unit item packages are consolidated into larger parcels).
- d. Other pertinent data established in the purchase order.

3.3.3 The tag-marking method must be appropriate for the protective packaging materials of both single-unit packages and consolidated parcels. The method used must also ensure that data on the tag remain legible when exposed to sunlight, moisture, heat, industrial fumes, and/or dust.

3.4 The described items shall be packed in wooden boxes in accordance with Saudi Aramco Packing Specification 8314-03, except that the following items shall be packed in heavy standard domestic pack in accordance with Saudi Aramco Packing Specification 8314-00:

- 3.4.1 Ball and roller bearings not exceeding 100-mm (4-inch) outside diameter.
- 3.4.2 Cones for tapered roller bearings not exceeding 75-mm (3-inch) inside diameter.
- 3.4.3 Gears, pulleys/sheaves, sprockets, and similar items not exceeding 100 mm (4 inches) in their largest dimension.

**Note:** Tapered cone ("Kingsbury Thrust") bearings must be individually packaged and boxed.

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