

		MS 8444-20	
ISSUED BY:	DHAHRAN MATERIALS & LOGISTICS DEPARTMENT TRAFFIC DIVISION	ISSUE DATE 05-2005	REPLACES 02-05
SUBJECT:	SAUDI ARAMCO PACKING SPECIFICATIONS	APPROVAL	PAGE NUMBER 1 OF 2

ADDITIONAL PACKING, PACKAGING, AND/OR MARKING REQUIREMENTS

1. **MATERIALS:** Drilling, work-over, and production equipment, accessories, and parts
2. **RANGE OF MATERIALS:** Saudi Aramco materials covered in materials services groups 001000, 002000, 003000, 004000, 0050000, 006000, 007000, 008000, and 009000, 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 Each issue unit must be identified by a bar code showing the Saudi Aramco material master number (if applicable), manufacturer's part number (if any), purchase order number, and purchase order line-item number.
 - 3.1.1 An "issue unit" is defined as an item, or all the parts/components of an item, consisting of one unit of issue of the material master number. Generally, the quantity of one each of a purchase order line item will constitute an issue unit.
 - 3.1.2 If an issue unit is an assembly, set, or kit consisting of more than one part/component, all parts/components must be packaged together in the same box/crate/carton/bag/envelope/shrink-wrap package. Each individual part/component must be identified with the manufacturer's name and, if appropriate, part number.
 - 3.1.3 The box/crate/carton/bag/envelope/shrink-wrap package holding the issue unit must have affixed at least one durable bar-code tags. The positioning of and means of affixing the tag are to be determined by the vendor.
 - 3.1.4 If appropriate, the major part/component of the issue unit must have affixed a single, weatherproof stick-on or tie-on bar-code tag (laminated tags are acceptable).
 - 3.1.5 The bar code must adhere to Specification ANSI MH10.8M (latest edition, excluding section 12) as follows:

<u>CHARACTERISTIC</u>	<u>SPECIFICATION</u>
Symbology	Code 39
Format of symbol (See note below.)	Material Master number = 1000026446 PO number = 4500001234
Code density	Minimum of 7.5 mil at 2.5:1 - 3:1
Element height	The greater of 0.25 inch or 15% of the symbol length
Quiet zone	The greater of 0.25 inch or 10 times the X dimension
Scanner light-source wavelength	B633 (visible red)
Scanner aperture size	7.5 mil X = 6 mil aperture; other X = 0.8 X aperture
Print contrast	75% or greater in B633
Label quality	Label must be decoded on first scan 90% of the time.
Human readability interpretation including	a. Printed beneath the bar-code symbol b. Represent all encoded characters, "start" and "stop" characters c. At least 0.94 inch in height

Note: The segments of the material master and purchase order number must be separated by dashes (-) as shown.

- 3.2 Markings on the shipment pack (heavy standard domestic pack, box, crate, pallet, skid, bundle, or big bag, as specified) must be in accordance with instructions furnished with the purchase order.