

		<b>MS 8314-08</b>	
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 3

**PART II  
SINGLE ITEM PACKING SPECIFICATION**

**REQUIREMENTS:** These requirements are in addition to any that may be in the material descriptions or other Saudi Aramco specifications, including Saudi Aramco Packing Specification 8314-02, which should be used in combination with this specification. Deviation from these requirements is not allowed without the Buyer's prior written approval.

1. **DEFINITION:** This specification covers those items which can be shipped individually without export packing.
2. **CABLE/WIRE/WIRE ROPE REELS/SPOOLS:**
  - 2.1 Electric cable, electric wire, and wire rope reels/spools 610 mm (24 in) and larger in diameter are packed and shipped as single items under the conditions set forth in this specification.
  - 2.2 Electric cable 5KV through 35KV must conform to a special bend test which determines the size of the reel/spool as indicated in 15-SAMSS-502, IEC502, AEIC CS5, or AEIC CS36. For submarine cable, reel/spool sizes must be as indicated in 15-SAMSS-503. For building wire 50 mm OD (outside diameter) or 1 AWG (American wire gauge) and above, minimum reel/spool size must be 7 times the OD of the wire. Building, instrumentation, thermocouple, communication, and other electric wire below 50 mm OD or 1 AWG must conform to the requirement stated in paragraph 2.1 above.
  - 2.3 Reels/spools must be newly constructed from either double-faced lumber or steel.
  - 2.4 Cable/wire/wire rope ends must be securely fastened.
  - 2.5 Electric, including telephone, cable ends must be sealed and insulated from dust and moisture.
  - 2.6 Cable/wire on reels/spools must be wrapped with an opaque, ultraviolet- (UV-) stabilized polyethylene shroud across the full width and around the full circumference of the cable/wire.

**Exception:** Cable/wire manufactured in-Kingdom requires an additional wrapping of UV-stabilized plastic board, fastened with plastic straps, over the polyethylene wrap.

- 2.7 The flanges of the reels/spools must be lagged with lumber of adequate thickness and strength to completely cover the circumference of the reel/spool and nailed or screwed on the flange rims. The lagging must be secured by 1 or more 1-1/4 inch, or larger, if required, steel straps around the periphery/circumference of the reel/spool.

Exception: Reels/spools of cable/wire manufactured in-Kingdom may be "cat-lagged"; that is, protected by 4 wooden battens spaced at approximately 90 degree intervals on the outer periphery/circumference of the reel/spool.

- 2.8 The length of the cable/wire/wire rope on the reel/spool must be marked on one flange, stated in the unit of measurement delineated in the purchase order.

3. OVERSIZE/OVERWEIGHT ITEMS:

- 3.1 If the dimensions of a single unit exceed 12 meters length, 2.5 meters width, or 3.45 meters height, or if the weight of a single item exceeds 20 tonnes, the Buyer should be notified.
- 3.2 Upon receipt of such notification from the vendor, the Buyer may issue Saudi Aramco Packing Specification Form 8314-09 for heavy or oversize cargo. In the absence of Form 8314-09, the provisions of paragraph 5 below must be met, as a minimum requirement, in addition to vendor's industry standards and any technical specifications attached to the purchase order.

4. STEEL LINE PIPE 6 INCHES AND OVER IN DIAMETER:

- 4.1 Steel line pipe 6 inches and over in diameter can be handled and shipped loose without additional packing, other than the requirements specified in any technical specifications attached to the purchase order.
- 4.2 In certain cases, end protectors are required for steel beveled line pipe, and these are addressed in separate Saudi Aramco Additional Packing, Packaging, and/or Marking Requirements Form 8444-09 attached to those specific purchase orders.

5. FOR ITEMS OTHER THAN THOSE SPECIFIED ABOVE:

5.1 Rubbing strips:

5.1.1 Rubbing strips should be fitted to prevent direct contact and to provide a minimum overall clearance of 10 cm (4 in) between metal items and the floor.

5.1.2 Wooden or steel shipping saddles should be secured to rounded items; for example, pressure vessels and stack sections.

5.2 Lifting:

Generally, items will be lifted by steel slings or forklift trucks.

5.2.1 Each item should have suitable lifting and slinging points to provide a stable horizontal lift.

5.2.2 Surfaces in danger of sling damage must be protected.

5.2.3 If special lifting equipment which does not form part of the order is required, the Buyer should be notified.

5.3 Component parts:

5.3.1 Loose component parts, especially if fragile or susceptible to atmospheric damage or pilferage, should be boxed and, if possible, secured with the main item; for example, tools, gaskets, wing mirrors, and safety valves.

5.3.2 Fixed component parts, if fragile or susceptible to atmospheric damage or pilferage, should be securely protected; for example, instrument panels, loose cable ends, and control boxes.

5.3.3 When component parts require additional securing for transit, the transit bolts, clamps, brackets, etc. should be clearly marked for easy removal prior to installation.