A-A-1452A
May 8, 1981
SUPERSEDING
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August 25, 1980

COMMERCIAL ITEM DESCRIPTION

LACQUER (SPRAYING, CHEMICAL RESISTANT)

The General Services Administration has authorized the use of this commercial item description in preference to Federal Specification TT-L-54C.

This description covers an acid-, gasoline and oil-resistant spray lacquer for aluminum surfaces around storage batteries.

Salient characteristics:

The wet lacquer shall be free from skins, and gels, and shall be readily dispersible by hand stirring to a smooth and homogeneous mixture. The solids content shall be at least 25 percent for black, and 30 percent for white lacquer. The volatile solvents shall meet air polution requirements.

Application. The lacquer shall spray to a smooth and uniform film which is free from surface defects.

Color. 1/ The lacquer shall be a critical match to the color specified (ASTM D 1729).

Drying time. 1/ The lacquer shall dry-to-touch within 10 minutes, dry hard within 60 minutes, and have no aftertack after 48 hours (ASTM D 1640).

Cold exposure. 1/ The lacquer shall be unchanged when exposed to $-18^{\circ} \pm 3^{\circ}C$ for 7 days.

Knife test. 1/ The lacquer shall ribbon or curl and not flake or powder, and show bevelled edges at a cut made with a craftman's knife (curved blade).

Lifting. 1/ The lacquer shall not wrinkle or lift when exposed to drops of toluene covered with a watch glass for 5 minutes.

Flexibility. 2/ The lacquer shall bend over a 1/8 inch mandrel at $0^{\circ}C$ and $25^{\circ}C$ without cracking or flaking (ASTM D 1737).

Gasoline, oil and acid resistance. 1/ The lacquer shall be resistant at standard conditions to immersion in regular gasoline for 4 hours, to drops of 10.6N sulfuric acid (specific gravity 1.300) covered with a watch glass for 24 hours, and to drops of lubricating oil for 24 hours at $50^{\circ} \pm 10^{\circ}C$ (the watch glass shall be sealed around the edge to prevent evaporation)

The issue of the ASTM test method in effect on the date of the solicitation shall be used to determine compliance with these requirements.

Certification. The contractor shall certify that the product offered meets the salient characteristics of this description, and that the product conforms to the producer's own drawings, specifications, standards, and quality assurance practices, and is the same product sold in the commercial marketplace. The Government reserves the right to require proof of such conformance prior to first delivery and thereafter as may be otherwise provided for under the provisions of the contract.

Regulatory requirements. The manufacturer shall utilize recovered materials to the maximum extent practicable.

Packaging, packing, and marking. The items shall be packaged in accordance with normal commercial practice and packed to assure acceptance by common carrier and provide product protection against loss and damage during multiple shipments, handling, and storage. The shipping container shall be in compliance with National Motor Freight Classification and Uniform Freight Classification. Shipping containers shall be marked as specified in the contract or order.

Notes: Procedures for the preparation of lacquer coatings relative to the above salient characteristics:

1/ Draw down the lacquer to a dry film thickness of 0.025 ± 0.0025 mm on solvent cleaned and buffed 24-gage aluminum or aluminum alloy sheet panels. Allow to dry at standard conditions for 48 hours.

2/ Draw down the lacquer as per above procedure, allow to dry at standard conditions for 30 minutes, and then bake at 105° ± 2C for 48 hours.

ASTM standards are available from the American Society for Testing and Materials, 1916 Race Street, Philadelphia, PA 19103.

Military Custodians

Army - MR
Navy - SH

Coordinating activity:

Army - MR

Preparing activity:

GSA-FSS