

A-A-665D
November 19, 1991
SUPERSEDING
A-A-665B
MARCH 14, 1986

COMMERCIAL ITEM DESCRIPTION
LACQUER

The General Services Administration has authorized the use of this Commercial Item Description.

Salient characteristics:

This description covers aerosol lacquer for general-purpose use. The aerosol lacquer shall be furnished in nominal one-pint commercial pressured dispensers and shall be dispersible by hand shaking for one minute at room temperature. The valve shall operate with moderate finger pressure and close immediately upon release of pressure without sputtering. The spray shall be uniform and a smooth film shall be deposited. The can shall deliver at least 98 percent by weight of contents. The lacquer shall not contain halogenated solvents or propellants.

Characteristic	Limits	ASTM Method
Total solids, grams		D 2369
Clear	22 min	
Flat black	40 min	
Gloss black	45 min	
Brass	38 min	
Silver	25 min	
Other colors	54 min	
Specular gloss ¹		D 523
Gloss colors	75 min	
Semigloss	25 - 50	
Flat	15 max	
Contrast ratio (at 1.0 +/- .2 mil dry film thickness sprayed on Leneta or Moresst hiding power charts)		D 2805
black, silver and gold	0.98 min	
red, yellow and orange	0.80 min	
white	0.85 min	
other colors	0.94 min	
Drying time		FED-STD-141C
Set to touch, min	15 max	4061.2
Dry through, hr	2.0 max	
Aftertack free, hr	48 max	
Lead content, % by weight of nonvolatile	0.06 max	D 3335
Hexavalent chromium content ²	none	

Flexibility.¹ The lacquer film shall bend over a 1/4 inch cylindrical mandrel without cracking or flaking (FED-STD-141C, method 6221).

Self-Lifting.¹ When recoated after drying for 2, 24 and 48 hours, the lacquer shall not wrinkle or lift.

Water resistance.¹ The film shall not wrinkle or blister after 18 hours immersion in distilled water at $73 \pm 2^\circ$ C (ASTM D1308). The color change, delta E, one hour after removal shall not be greater than 2.5 (ASTM D2244).

Color. When observed both under illuminant A and illuminant D65, the opaque lacquer, at complete hiding, shall match the color specified (ASTM D1729). In the event of a dispute, an instrumental color match shall be used (ASTM D2244) using the following conditions: illuminant D65, CIE 1976 CIELAB opponent color space using the 1931 CIE standard observer (2° observer), specular component excluded. The maximum allowable Delta E shall be 1.75. Brass, aluminum, flat black and gloss black shall be a visual color match only.

Quality assurance provisions. Unless otherwise specified, the contractor is responsible for the performance of all inspection requirements specified herein using facilities approved by the Government. The Government reserves the right to perform any of the inspections set forth herein when deemed necessary to assure that the paint conforms to prescribed requirements. Failure to meet any requirement shall be cause for rejection of the lot from which the sample was taken.

Sampling. Aerosol containers shall be sampled in accordance with MIL-STD-105, special inspection level S-1 and AQL of 1.5 percent defectives. Testing shall be performed in accordance with all requirements.

Regulatory requirements. The offeror/contractor is encouraged to use recovered materials in accordance with Public Law 94-580 to the maximum extent practicable.

Preservation, packaging, packing, labeling and marking. The preservation, packaging, packing, labeling and marking shall be as specified in the contract or order.

Notes. Purchaser should specify color required.

ASTM standards are available from the American Society for Testing and Materials, 1916 Race Street, Philadelphia, PA 19103. The issue of the ASTM test methods in effect on the date of the solicitation shall be used to determine compliance with these requirements.

Federal and Military standards required by contractors in connection with specific acquisition functions should be obtained from the contracting activity or as directed by the contracting officer.

1 Spray two coats, each consisting of one horizontal and one vertical pass, from a distance of 10 to 12 inches on tin plate flexibility panels. Unless otherwise specified, allow to dry for 48 hours at standard conditions. The dry film thickness obtained shall be 1.0 mil except the clear shall be 0.5 mil. For flexibility testing the film shall be baked 2 hours at 60°C and cooled to room temperature.

2 Add 5 mL 25 percent aqueous KOH to 1/2 gram extracted pigment in a centrifuge tube. Agitate by shaking and centrifuge. A yellow color in the supernatant liquid indicated the presence of hexavalent chromium.

MILITARY INTEREST:

CUSTODIAN

Air-Force - 99

REVIEWER

Air-Force-84

PREPARING ACTIVITY

GSA-FSS

Project No. 8010-0484