

[INCH-POUND]  
A-A-665E  
July 1, 1999  
SUPERSEDING  
A-A-665D  
November 19, 1991

## COMMERCIAL ITEM DESCRIPTION

### Enamel, Fast-Dry Aerosol

The General Services Administration has authorized the use of this commercial item description by all federal agencies.

1. SCOPE. This commercial item description covers fast drying enamels for general-purpose use.

2. CLASSIFICATION.

2.1 Type. Enamel, Fast-Dry.

2.2 Style. Aerosol.

2.3 Size. Nominal one-pint commercial pressured dispensers

3. SALIENT CHARACTERISTICS. The aerosol enamel 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 enamel shall not contain halogenated solvents or propellants

3.1 Sampling. Aerosol containers shall be sampled in accordance with American National Standards Institute (ANSI)/ American Society for Quality (ASQ) Z1.4-1993 for inspection by attributes, and ANSI/ASQ Z1.9-1993 Sampling procedures and tables used for inspection by variables for percent nonconforming testing. Copies may be obtained from the American Society for Quality, P.O. Box 3005, 611 E. Wisconsin Avenue, Milwaukee, WI 53201-4606. Testing shall be performed in accordance with all requirements. An AQL of 1.5 percent defectives for an inspection level equivalent to S-1 shall not be exceeded.

3.2 Quality Assurance Provisions. Unless otherwise specified, the contractor is responsible for the performance of all inspection requirements specified herein using facilities approved by the

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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.

3.3 Table of characteristics.

<u>Characteristic</u>	<u>Limits</u>	<u>ASTM Method</u>
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 <sup>1</sup>		D 523
Gloss colors	75 min.	
Semi-gloss	25 - 50 min.	
Flat	15 min. max.	
Contrast Ratio		D 2805
(at 1.0 +/- 0.2 mil dry film thickness sprayed on Leneta or Moresst hiding power charts)		
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 <sup>2</sup>	None to limits of detection	

3.3.1 Flexibility.<sup>1</sup> The paint film shall bend over a ¼ inch cylindrical mandrel without cracking or flaking (Fed-Std 141C, method 6221).

3.3.2 Self-Lifting.<sup>1</sup> When recoated after drying for 2, 24 and 48 hours, the paint shall not wrinkle or lift.

3.3.3 Water resistance.<sup>1</sup> The film shall not wrinkle or blister after 18 hours immersion in distilled water at 73° +/- 2° C (ASTM D 1308). The color change, delta E, one hour after removal shall not be greater than 2.5 (ASTM D 2244).

3.3.4 Technical Footnotes:

<sup>1</sup> 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 two hours at 60° C and cooled to room temperature.

<sup>2</sup> Add 5 ml. 25 percent aqueous KOH to 0.5 gram extracted pigment in a centrifuge tube. Agitate by shaking and centrifuge. A yellow color in the supernatant liquid indicates the presence of hexavalent chromium.

3.4 Color. When observed both under illuminant A and illuminant D65, the opaque enamel, at complete hiding, shall match the color specified (ASTM D1729). In the event of a dispute, and instrument 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.

4. REGULATORY REQUIREMENTS. In accordance with the section 23.403 of the Federal Acquisition Regulations, the Government's policy is to acquire items composed of the highest percentage of recovered materials practicable, consistent with maintaining a satisfactory level of competition without adversely affecting performance requirements or exposing suppliers' employees to undue hazards from the recovered materials.

5. PRODUCT CONFORMANCE. The products provided shall meet the salient characteristics of this commercial item description, conform to the producer's own drawings, specifications, standards, and quality assurance practices and be the same product offered for sale in the commercial market. The Government reserves the right to require proof of such conformance.

6. PACKAGING. Preservation, packaging, packing, marking and palletization shall be as specified in the contract or order.

7. NOTES.

7.1 Part Identification Number (PIN). The following part identification numbering procedure is for government purposes and does not constitute a requirement for the contractor.

7.2 Sources of Referenced Documents.

7.2.1 Government Publications. Copies of Federal specifications, standards, and commercial item descriptions may be obtained from the General Services Administration, Specification Section(3FP-E), Suite 8100, L'Enfant Plaza SW, Washington, DC 20407.

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7.2.2 ASTM methods may be obtained from the American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959.

7.3 Ordering Data. Purchasers should select the preferred options permitted herein, and include the following information in procurement documents:

Title, number, and date of this Commercial Item Description.  
Color, Fed-Std 595B Color Number.  
Preservation, packaging, packing, marking and palletization.

7.4 National Stock Numbers (NSNs). The following is a list of NSNs assigned which correspond to this CID. The list may not be indicative of all possible NSNs associated with the CID.

NSN:

8010-00-079-2754	8010-00-721-9748	8010-00-835-7215
-141-2958	-9747	-965-2390
-2952	-9746	-2389
-2951	-9745	-2391
-2950	-9753	-2392
-290-6983	-9754	-582-5382
-515-2487	-9744	-584-3148
-883-5329	-9743	-3149
-721-9752	-9479	-3150
-9751	-9483	-3154
-9750	-9487	-01-303-0235
-9749	-9742	

7.5. Key Words. Enamel, aerosol, fast-dry, quick-dry, spray paint, touch-up.

PREPARING ACTIVITY: GSA-FSS

Custodian: Air Force - 99

Review Activity: Air Force - 84

User Activities: All Federal Agencies