METRIC

A-A-1452C <u>August 15, 2007</u> SUPERSEDING A-A-1452B February 23, 1996

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 for all federal agencies.

1. **SCOPE.** This description covers a one part, high gloss, air drying lacquer for coating aluminum metal surfaces in service around storage batteries, gasoline and lube oil exposures.

2. SALIENT CHARACTERISTICS

- 2.1 Prohibited Materials. Shall not include chlorinated solvents, hydrolysable chlorine derivatives, lead, mercury, chromate, any carcinogen as defined in the Code of Federal Regulations (CFR), Part 29, Section 1910.1200 and Environmental Protection Agency (EPA) Class I or II ozone depleting substances. Maximum background lead content shall be 0.06% (600 parts per million), weight basis of dry film determined in accordance with ASTM D3335.
- 2.2. **Specular Gloss.** The minimum specular gloss shall be 70% at 60 degrees when tested in accordance with ASTM D523.
- 2.3. **Volatile Organic Content (VOC).** The maximum allowable VOC (less water and exempt solvents) shall be 420 grams per liter, when tested in accordance with Environmental Protection Agency Method 24, described in 40 CFR Part 60.
- 2.4. **Total Solids (weight basis).** Black: 25% minimum. White: 30% minimum (test both in accordance with ASTM D2697).
- 2.5. Appearance. The lacquer shall spray to a smooth and uniform film which is free of surface defects.
- 2.6. Color. Color shall be as specified in the contract or purchase order in accordance with the Fed-Std-595 color number specified; determined visually in accordance with the standard practice in ASTM D1729.
- 2.7. **Drying Time.** The product shall dry to touch in less than 10 minutes, dry hard within 60 minutes and have no "aftertack" after 48 hours, when tested in accordance with ASTM D1640.
- 2.8. **Knife Test.** The product shall form a ribbon or curl, and not flake or powder, and shall show beveled edges at a cut made with a sharp, curved blade, utility knife.
- 2.9. **Lifting.** The lacquer shall not wrinkle or lift when exposed to drops of toluene covered with a watch glass for 5 minutes at 23 to 25° C.
- 2.10. **Flexibility.** At 0° C and 25° C, the cured product shall bend 270 degrees over a 3.1 3.2 mm (0.125 inch) mandrel without cracking or flaking when tested in accordance with ASTM D522.

Beneficial comments, recommendations, additions, deletions, clarifications, etc. and any data which may improve this document should be sent to: General Services Administration, Heartland Global Supply, GSA/FAS/QSDAAB, 1500 E. Bannister Rd., Kansas City, MO 64131

- 2.11. **Gasoline, Oil and Acid Resistance.** The product shall not wrinkle, lift or soften when immersed in unleaded gasoline (86-88 octane) for 4 hours, and to drops of 10.6 normal sulfuric acid (specific gravity 1.300) covered with a watch glass for 24 hours, and to 3 drops of lubricating oil of the paraffinic/ aliphatic type, as SAE Number 30 HD (detergent) motor oil, for 24 hours at 50° +/- 1° C, covered with a watch glass.
- 2.12. **Consistency.** The liquid product shall be free from skins, and gels and shall be dispersible by hand stirring to a smooth and homogenous mixture.

TABLE 1 QUANTITATIVE REQUIREMENTS

Property	Limit or Note	Test Method
60 ° Specular Gloss	70%	ASTM D523
Volatile Organic Content	420 g/l	EPA Test Method 24
Minimum Total Solids (Weight Basis)		ASTM D2697
Black	25%	
White	30%	
Color Match to Fed-Std-595	Ref. Section 2.6	ASTM D1729
Drying Time		ASTM D1640
Dry to Touch	10 minutes	
Dry Hard	60 minutes	
No "Aftertack"	48 hours	
Flexibility	Ref. Section 2.10	ASTM D522
Lead, Mercury, Hexavalent Chromium content	0.06%	ASTM D3335
(Weight Basis)		

3. REGULATORY REQUIREMENTS

- 3.1. **Material Safety Data Sheets.** Material Safety Data Sheets (MSDS) shall be submitted in accordance with Fed-Std-313.
- 3.2. **Recovered Material Content.** The offeror/ contractor is encouraged to use recovered materials to the maximum extent practicable, in accordance with paragraph 23.403 of the Federal Acquisition Regulation (FAR).

4. PRODUCT CONFORMANCE PROVISIONS

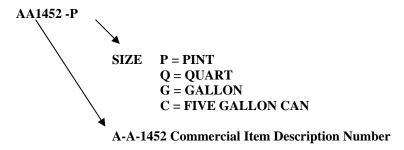
- 4.1. **Product Conformance.** The products provided shall meet the salient characteristics of this Commercial Item Description, conform to the producer's own drawings, specifications, standards, and quality assurance practices, and be the same product offered for sale in the commercial marketplace. The government reserves the right to require proof of such conformance.
- 4.2. **Market Acceptability.** The following market acceptability criteria are necessary to document the quality of the product to be provided under this Commercial Item Description.
 - a) The manufacturer of the item must have been producing a product meeting the requirements of this Commercial Item Description for at least 2 years Title, number, and date of this Commercial Item Description.
 - b) The company must have sold at least 1,000 units meeting this Commercial Item Description in the commercial market place over the past 2 years Packaging, packing, and marking required.

5. PACKAGING

5.1. **Packaging, packing, and marking.** The paint shall be furnished in quantities specified and the packaging, packing, and marking shall be as specified (see 6.2-6.3).

6. NOTES

- 6.1. **Intended use.** This description covers a one part, high gloss, air drying lacquer for coating aluminum metal surfaces in service around storage batteries, gasoline and lube oil exposures.
- 6.2. **Ordering data.** Purchasers should include the following information in procurement documents:
 - a) Title, number, and date of this Commercial Item Description
 - b) Packaging, packing, and marking required.
 - c) Size of container and quantity required.
- 6.3. **Part Identification Number (PIN)**. The following part identification numbering procedure is for government purposes and does not constitute a requirement for the contractor.



6.4. **Referenced Documents.** The following documents of the issues on date of invitation for bids or request for proposal form part of this Commercial Item Description to the extent specified herein.

Federal Standards:

FED-STD-313 Material Safety Data, Transportation Data and Disposal Data for Hazardous Materials Furnished to Government Activities

FED-STD-595 Colors Used in Government Procurement

Code of Federal Regulations:

29 CFR part 1910 Occupational and Safety Health Standards 40 CFR part 60 New Stationary Source Standards

40 CFR part 82 Protection of Stratospheric Ozone 48 CFR part 23.403 Federal Acquisition Regulation

American Society for Testing and Materials (ASTM) Standards:

D522 Test Methods for Mandrel Bend Test of Attached Organic Coatings

D523 Test Method for Specular Gloss

D1640 Drying, Curing, or Film Formation of Organic Coatings at Room Temperature Materials

D1729 Visual Appraisal of Colors and Color Differences of Diffusely-Illuminated Opaque Materials

D2697 Standard Test Method for Volume Nonvolatile Matter in Clear or Pigmented Coatings

D3335 Standard Test Method for Low Concentrations of Lead, Cadmium, and Cobalt in Paint by Atomic Absorption Spectroscopy

Source of Documents.

- 6.4.1. **Federal Regulation.** Code of Federal Regulation references (CFR) can be accessed free, on-line from the Government Printing Office CFR Retrieval site, http://www.gpoaccess.gov/cfr/retrieve.html.
- 6.4.2. **American Society for Testing and Materials.** Copies of ASTM specifications and standards may be purchased on-line from the American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959 at http://www.astm.org/.
- 6.4.3. **Federal Specifications.** Copies of Federal Specifications and standards may be obtained free, online from Defense Logistics Agency Acquisition Streamlining and Standardization Information System (DLA ASSIST) at http://assist.daps.dla.mil/quicksearch/. Fed-Std-595 reference color chips can be purchased by contacting the following office:

GSA Property Management GSA/CO/3FPD 470 L'Enfant Plaza East, SW, Suite 8100 Washington DC 20407 202-619-8925, Fax 202-619-8985

- 6.4.4. **U.S. Environmental Protection Agency "Method 24".** A copy of U.S. Environmental Protection Agency "Determination of Volatile Matter Content, Water Content, Density, Volume Solids, and Weight Solids of Surface Coatings" (Method 24) is available at the following web site: http://www.epa.gov/ttn/emc/promgate.html.
- 6.4.5. **National Stock Numbers (NSNs).** The following is a list of NSNs assigned that corresponds to this Commercial Item Description. The list may not be indicative of all possible NSNs associated with the Commercial Item Description.

Color Number = Fed-Std-595 Color Number

NSN	Color Number
8010-00-166-1667	17875
8010-00-166-1700	17038
8010-00-290-6158	17038
8010-00-721-9852	17038

6.5.6 **Key Word.** Lacquer

Custodians: Army MI Navy SH Air Force 99 Preparing Activity: GSA-FAS (FSS)

FSC 8010