

AEROSPACE MATERIAL SPECIFICATION

An American National Standard

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Superseding AMS-2820

AEROSOL PACKAGING

1. SCOPE:

1.1 Purpose: This specification establishes requirements for aerosol packaging.

1.2 Application: Primarily to ensure the safety and performance of aerosol containers in which products such as paint, cleaners for interior and exterior surfaces, and deodorants, are packaged.

1.3 Safety - Hazardous Materials: While the materials, methods, applications, and processes described or referenced in this specification may involve the use of hazardous materials, this specification does not address the hazards which may be involved in such use. It is the sole responsibility of the user to ensure familiarity with the safe and proper use of any hazardous materials and to take necessary precautionary measures to ensure the health and safety of all personnel involved.

2. APPLICABLE DOCUMENTS: The following publications form a part of this specification to the extent specified herein. The applicable issue of referenced publications shall be the issue in effect on the date of the purchase order.

2.1 ASTM Publications: Available from ASTM, 1916 Race Street, Philadelphia, PA 19103-1187.

ASTM D 3058 - Simple Can-Puncturing Device for Aerosol Laboratory Use

ASTM D 3065 - Flammability of Aerosol Products

ASTM D 3066 - Labeling Aerosol Cans

ASTM D 3068 - Safe Fill of Aerosol Containers

ASTM D 3069 - Delivery Rate of Aerosol Products

ASTM D 3074 - Pressure in Metal Aerosol Containers

ASTM D 3094 - Seepage Rate of Aerosol Products

ASTM D 3097 - Testing Aerosol Products for Delivered Mass

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3. TECHNICAL REQUIREMENTS:

- 3.1 Properties: Filled aerosol containers shall conform to the following requirements; when substantial quantities of a product are required for testing to determine conformance to the material specification, removal may be accomplished using apparatus described in ASTM D 3058.
- 3.1.1 Flammability: There shall be no flame projection and no explosion and the product shall have no flash point during the 60-second test, determined in accordance with ASTM D 3065.
- 3.1.2 Container Head Space: Shall be not less than 7-1/2% at 130°F (54°C), determined in accordance with ASTM D 3068.
- 3.1.3 Gas Seepage: Shall be not greater than 2 cm³ per 24 hours, determined in accordance with ASTM D 3094.
- 3.1.4 Container Pressure: Shall be not higher than 180 psi (1241 kPa), determined in accordance with ASTM D 3074.
- 3.1.5 Dispensing Rate: Shall be not greater than 2 grams per second, determined in accordance with ASTM D 3069.
- 3.1.6 Total Dispensing: The total delivered mass shall be not less than that stated on the container label, determined in accordance with ASTM D 3097.
- 3.1.7 Labeling: Containers shall be labeled in accordance with ASTM D 3066 to show compliance with the Federal Fair Packaging and Labeling Act; Federal Food, Drug and Cosmetic Act; Federal Hazardous Substances Act; Federal Insecticide, Fungicide and Rodenticide Act; and State Weights and Measures Laws, as applicable, in addition to markings required by the material specification.

4. QUALITY ASSURANCE PROVISIONS:

- 4.1 Responsibility for Inspection: The vendor of aerosol-packaged products shall supply all samples for vendor's tests and shall be responsible for performing all required tests. Purchaser reserves the right to sample and to perform any confirmatory testing deemed necessary to ensure that aerosol packaging conforms to the requirements of this specification.
- 4.2 Classification of Tests: Tests for all technical requirements are acceptance tests and shall be performed on each lot.
- 4.3 Sampling and Testing: Shall be as agreed upon by purchaser and vendor.
- 4.4 Reports: Results of tests to determine conformance to the requirements of this specification shall be included in the report required by the material specification.