



AEROSPACE MATERIAL SPECIFICATION

AMS3803™**REV. A**

Issued 1984-04
Revised 1992-10
Reaffirmed 2016-09

Superseding AMS3803

Wipes, Cotton, Loosely Woven

RATIONALE

AMS3803A has been reaffirmed to comply with the SAE five-year review policy.

1. SCOPE:

1.1 Form:

This specification covers a loosely-woven cotton in the form of wipes supplied in rolls or cut sheets.

1.2 Application:

These wipes have been used typically in fine hand cleaning operations where scratching would damage the substrate being cleaned, especially aircraft plastic transparencies, but usage is not limited to such applications.

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 latest issue of SAE publications shall apply. The applicable issue of other publications shall be the issue in effect on the date of the purchase order.

2.1 SAE Publications:

Available from SAE, 400 Commonwealth Drive, Warrendale, PA 15096-0001.

AMS 3609 Plastic Sheet, Methyl Methacrylate, Heat Resistant

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2.2 ASTM Publications:

Available from ASTM, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959.

ASTM D 202 Sampling and Testing Untreated Paper Used for Electrical Insulation

ASTM D 3776 Mass per Unit Area (Weight) of Woven Fabric

ASTM E 70 pH of Aqueous Solutions with the Glass Electrode

2.3 U.S. Government Publications:

Available from DODSSP, Subscription Services Desk, Building 4D, 700 Robbins Avenue, Philadelphia, PA 19111-5094.

MIL-P-5425 Plastic, Sheet, Acrylic, Heat Resistant

MIL-STD-2073-1 DOD Materiel, Procedures for Development and Application of Packaging Requirements

3. TECHNICAL REQUIREMENTS:

3.1 Material:

Shall be 100% cotton fiber which is loosely woven and purified to extract all the natural oils.

3.1.1 Color: Shall be unbleached white.

3.1.2 Cleanliness: Shall be new fabric, visually clean, free of paint, oil, grease, metal, plastic, or other foreign materials.

3.1.3 Weight: Shall be 4.0 to 6.0 ounces per square yard (136 to 203 g/m²), determined in accordance with ASTM D 3776.

3.2 Properties:

Wipes shall conform to the following requirements:

3.2.1 Extraction: Extractable material content, by weight, shall be determined in accordance with ASTM D 202, Solvent Soluble Matter, using separate specimens in each of the following solvents:

3.2.1.1 Water: The water extractable material shall not exceed 0.75%.

3.2.1.1.1 pH: The pH of the water extract shall be 6.0 to 7.5, determined in accordance with ASTM E 70.

3.2.1.2 Methyl Ethyl Ketone: The methyl ethyl ketone extractable material shall not exceed 1.0%.

3.2.1.3 Methylene Chloride: The methylene chloride extractable material shall not exceed 1.0%.

3.2.1.4 Naphtha: The aliphatic naphtha extractable material shall not exceed 1.0%.