



AEROSPACE MATERIAL SPECIFICATION

AMS3807™

REV. C

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Superseding AMS3807B

Tape, Aluminum Foil, Sound and Vibration Damping
Pressure Sensitive Adhesive

RATIONALE

This document has been determined to contain basic and stable technology which is not dynamic in nature.

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Documents

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1. SCOPE:

1.1 Form:

This specification covers aluminum foil tape with a pressure sensitive adhesive.

1.2 Application:

This product has been used typically for alleviation of sound and vibration in areas where excessive noise may prevail, but usage is not limited to such applications.

1.3 Classification:

Tape covered by this specification is classified as follows:

Type 1: Dead soft aluminum, intended primarily for application where low-to-medium temperatures and moderate sound and vibration damping are required.

Type 2: Fiberglass-laminated-aluminum, intended primarily for application where higher temperatures and maximum sound and vibration damping are required.

1.3.1 Unless a specific type is ordered, either type may be supplied.

1.4 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 issue of the following documents in effect on the date of the purchase order form a part of this specification to the extent specified herein. The supplier may work to a subsequent revision of a document unless a specific document issue is specified. When the referenced document has been cancelled and no superseding document has been specified, the last published issue of that document shall apply.

2.1 SAE Publications:

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

AMS 4011	Aluminum, Foil and Light Gage Sheet, 99.45Al (1145-0), Annealed
AMS 4041	Aluminum Alloy, Sheet and Plate, Alclad, 4.4Cu - 1.5Mg - 0.60Mn, (Alclad 2024 and 1-1/2% Alclad 2024, -T3 Flat Sheet, 1-1/2% Alclad 2024-T351 Plate)

2.2 ASTM Publications:

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

ASTM D 1000	Pressure-Sensitive Adhesive-Coated Tapes Used for Electrical and Electronic Applications
ASTM D 3611	Accelerated Aging of Pressure-Sensitive Tapes
ASTM D 3652	Thickness of Pressure-Sensitive and Gummed Tapes
ASTM D 3652M	Thickness of Pressure-Sensitive and Gummed Tapes (Metric)
ASTM D 3715	Quality Assurance of Pressure-Sensitive Tapes
ASTM D 3951	Commercial Packaging
ASTM E 756	Measuring Vibration-Damping Properties of Materials

3. TECHNICAL REQUIREMENTS:

3.1 Material:

Tape shall consist of an aluminum foil backing coated on one side with a pressure-sensitive adhesive.

3.1.1 Backing (Type 1): Shall be smooth and scratch-free AMS 4011 aluminum foil.

3.1.2 Backing (Type 2): Shall be the same as Type 1 except that the aluminum foil shall be laminated on the inside (adhesive side) with a smooth, uniform layer of fiberglass acceptable to purchaser.

3.1.3 Adhesive: Shall be pressure-sensitive, homogeneous, and coated in a smooth and evenly distributed layer on one side of the backing. The adhesive shall cause the tape to adhere immediately and firmly to clean, dry surfaces without wrinkling, curling, breaking, or lifting. A liner over the adhesive shall be available as an option.