

**AEROSPACE
MATERIAL
SPECIFICATION**

SAE AMS3286

REV. F

Issued 1942-06
Revised 1993-01
Reaffirmed 2006-01
Stabilized 2011-08

Superseding AMS3286E

Felt, Firm Pad, White
100% Wool

RATIONALE

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

STABILIZED NOTICE

This document has been declared "Stabilized" by SAE AMS P, Polymeric Materials Committee, and will no longer be subjected to periodic reviews for currency. Users are responsible for verifying references and continued suitability of technical requirements. Newer technology may exist.

SAE Technical Standards Board Rules provide that: "This report is published by SAE to advance the state of technical and engineering sciences. The use of this report is entirely voluntary, and its applicability and suitability for any particular use, including any patent infringement arising therefrom, is the sole responsibility of the user."

SAE reviews each technical report at least every five years at which time it may be reaffirmed, revised, or cancelled. SAE invites your written comments and suggestions.

Copyright © 2011 SAE International

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without the prior written permission of SAE.

TO PLACE A DOCUMENT ORDER: Tel: 877-606-7323 (inside USA and Canada)
Tel: +1 724-776-4970 (outside USA)
Fax: 724-776-0790
Email: CustomerService@sae.org
http://www.sae.org

SAE WEB ADDRESS:

**SAE values your input. To provide feedback
on this Technical Report, please visit
<http://www.sae.org/technical/standards/AMS3286F>**

1. SCOPE:

1.1 Form:

This specification covers felted wool fibers in the form of sheets and rolls.

1.2 Application:

This product has been used typically for oil and grease retention where the felt is confined and compressed in assembly and for dust shields where conditions are not severe, 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 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, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959.

ASTM D 461 Testing Felt

2.2 U. S. Government Publications:

Available from Standardization Documents Order Desk, Building 4D, 700 Robbins Avenue, Philadelphia, PA 19111-5094.

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

3. TECHNICAL REQUIREMENTS:

3.1 Material and Fabrication:

The product shall be made from white wool fibers built up by a suitable combination of mechanical work, chemical action, moisture, and heat, without spinning, weaving, or knitting, to produce a uniform well-felted product.

3.2 Properties:

The felt shall conform to the requirements shown in Table 1, Table 2, and 3.2.9. Tests shall be conducted on the felt supplied and in accordance with ASTM D 461, insofar as practicable; splitting resistance requirements apply only to felt 3/16 inch (4.8 mm) and over in thickness.

TABLE 1 - Properties

| Paragraph | Property | Requirement |
|-----------|---|---|
| 3.2.1 | Tensile Strength, minimum | 225 psi (1.55 MPa) |
| 3.2.2 | Splitting Resistance, minimum | 8 pounds force per 2 inches (36 N/51 mm) width |
| 3.2.3 | Actual Wool Content, minimum | 95% |
| 3.2.4 | Methyl Chloroform Soluble, maximum | 2.5% |
| 3.2.5 | Water Soluble, maximum | 2.5% |
| 3.2.6 | Combined Methyl Chloroform plus Water Soluble, maximum | 3.0% |
| 3.2.7 | Ash Content, maximum | 2.5% |

3.2.8 Weight: Shall be shown in Table 2.