

**AEROSPACE  
MATERIAL  
SPECIFICATION**

**SAE** AMS3285

REV. F

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

Superseding AMS3285E

Felt, Back Check, White  
100% Wool

RATIONALE

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

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## 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 retention in installations which do not compress the felt, for feeding low-viscosity or light oil, and where unusual strength and hardness are required for such parts as washers, bushings, wicks, and other parts where resistance to wear and abrasion are required, 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 Material, 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 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	500 psi (3.45 MPa)
3.2.2	Splitting Resistance, minimum	32 pounds force per 2-inch width (142 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	1.5%