

AERONAUTICAL MATERIAL SPECIFICATION

Society of Automotive Engineers, Inc.
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AMS 3286A

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FELT, FIRM PAD, WHITE
100% Wool

1. ACKNOWLEDGMENT: A vendor shall mention this specification number and its revision letter in all quotations and when acknowledging purchase order.
2. APPLICATION: Primarily for oil and grease retention where the felt is confined and compressed in assembly. Also suitable for dust shields where conditions are not severe.
3. MATERIAL AND FABRICATION: Material 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.
4. TECHNICAL REQUIREMENTS:
 - 4.1 General:
 - 4.1.1 Corrosion: The product shall not have a corrosive effect on other materials when exposed to conditions normally encountered in service. Discoloration of metal shall not be considered objectionable.
 - 4.1.2 Properties: The product shall conform to the following requirements; tests shall be conducted on the product supplied and in accordance with ASTM D461-51, insofar as practicable.

4.2.1 Tensile Strength, psi, min	225
4.2.2 Splitting Resistance, lb per 2 in. width, min	8
4.2.3 Actual wool content, %, min	95
4.2.4 Carbon tetrachloride soluble, %, max	2.5
4.2.5 Water soluble, %, max	2.5
4.2.6 Carbon tetrachloride soluble + water soluble, total, %, max	3.0
Ø 4.2.7 Ash, %, max	2.5

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4.2.8 Weight, lb per sq yd

Ø	Nominal Thickness	Min	Max	Nominal Thickness	Min	Max
	Inch			Inch		
	1/8	0.98	1.14	1/2	3.92	4.56
	3/16	1.47	1.71	5/8	4.90	5.70
	1/4	1.96	2.28	3/4	5.88	6.84
	5/16	2.45	2.85	7/8	6.86	7.98
	3/8	2.94	3.42	1	7.84	9.12

5. QUALITY: The product shall be uniform in thickness and shall be free from tears, holes, lumps, wrinkles, and foreign materials and from defects detrimental to fabrication, appearance or performance of parts.

6. TOLERANCES: Unless otherwise specified, the following tolerances apply:

Ø	Nominal Thickness	Thickness Tolerance, Inch	
	Inch	Plus	Minus
	1/8	0.105	0.145
	3/16	0.165	0.211
	1/4	0.224	0.276
	5/16	0.284	0.342
	3/8	0.343	0.407
	1/2	0.462	0.538
	5/8	0.581	0.669
	3/4	0.700	0.800
	7/8	0.819	0.931
	1	0.938	1.062

7. REPORTS:

7.1 Unless otherwise specified, the vendor of the product shall furnish with each shipment three copies of a report stating that the product meets the requirements of this specification. This report shall include the purchase order number, material specification number, vendor's compound number, thickness, size and quantity.

7.2 Unless otherwise specified, the vendor of finished or semi-finished parts shall furnish with each shipment three copies of a report showing the purchase order number, contractor or other direct supplier of material, part number, and quantity. When material for making parts is produced or purchased by the parts vendor, that vendor shall inspect each lot of material to determine conformance to the requirements of this specification, and shall include in the report a statement that the material conforms, or shall include copies of laboratory reports showing the results of tests to determine conformance.

8. IDENTIFICATION: Containers shall be marked with AMS 3286A, purchase order number, part number, and quantity. Pieces of different part numbers shall not be packed in the same container.