

AERONAUTICAL MATERIAL SPECIFICATION

Society of Automotive Engineers, Inc.
29 West 39th Street
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AMS 3285

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Revised

FELT, (BACK CHECK), WHITE,
(100% wool)

1. ACKNOWLEDGMENT: A vendor must mention this specification number in all quotations and when acknowledging purchase orders.

2. APPLICATION: The material shall be suitable for oil retention in installations which do not compress the felt and for other uses where unusual strength and hardness are required for consideration of wear or assembly.

3. COMPOSITION: (a) This material shall be made of 100% white wool.
(b) The chemical requirements are as follows:-

(1) actual wool content -----	Min	95%
(2) carbon tetrachloride soluble -----	Max	2.5
(3) water soluble -----	Max	2.5
(4) combined (2) & (3) -----	Max	3.0
(5) ash -----	Max	1.0

4. REQUIREMENTS: (a) This material shall be well carded to produce a uniform and even mixture which shall be well felted to meet the weight, strength and thickness requirements.
(b) The weight requirements for various thicknesses are as follows:-

WEIGHT OF FELT - LBS. PER SQ. YD.

Nominal Thickness, Inch

Thickness	Min	Max	Thickness	Min	Max
1/16	.90	1.05	5/16	4.75	5.25
1/8	1.90	2.10	3/8	5.70	6.30
3/16	2.85	3.15	1/2	7.60	8.40
1/4	3.80	4.20			

(c) Breaking strength .500 psi minimum.

(d) Splitting strength 33 pounds minimum per 2 inch width, on thicknesses of 3/16 inch or over

5. QUALITY: (a) All felt shall be uniform in thickness and shall be free from tears, holes, lumps, wrinkles, foreign matter and/or any other imperfections affecting appearance or serviceability.

(b) The finished felt shall be reasonably smooth and evenly felted.

6. TESTS: All tests shall be made in accordance with the latest revision of A.S.T.M. Specification D-461, Testing of Wool Felts.

7. TOLERANCES: The permissible thickness tolerances shall be as follows:

NOMINAL THICKNESS IN INCHES

Thickness	Min	Max	Thickness	Min	Max
1/16	.056	.068	5/16	.296	.329
1/8	.112	.137	3/8	.358	.392
3/16	.173	.201	1/2	.480	.520
1/4	.235	.265			