

AERONAUTICAL MATERIAL SPECIFICATION

Society of Automotive Engineers, Inc.
29 West 39th Street
New York City

AMS 3290

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Revised

FELT, (FIRM PAD), GRAY,
(80% wool)

CANCELLED

1. ACKNOWLEDGMENT: A vendor must mention this specification number in all quotations and when acknowledging purchase orders.
2. APPLICATION: This material shall be suitable for sound deadening, soft pads, and for mechanical purposes where abrasion and wear are not important factors.
3. COMPOSITION: (a) This material shall be made of 80-85% gray wool and 15-20% cotton.
(b) The chemical requirements are as follows:-

(1) actual wool content -----	Min	75%
(2) carbon tetrachloride soluble -----	Max	4.0
(3) water soluble -----	Max	4.0
(4) combined (2) & (3) -----	Max	8.0
(5) ash -----	Max	2.5

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
1/8	1.00	1.15	3/8	2.95	3.45
3/16	1.50	1.70	1/2	3.95	4.55
1/4	2.00	2.30	3/4	5.90	6.85
5/16	2.50	2.85	1	7.85	9.15

- (c) Breaking strength 75 psi minimum.
- (d) Splitting strength 2 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 or any other imperfections affecting appearance and/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 tolerance shall be as follows:-

NOMINAL THICKNESS IN INCHES

Thickness	Min	Max	Thickness	Min	Max
1/8	.100	.150	3/8	.333	.416
3/16	.158	.217	1/2	.450	.550
1/4	.217	.283	3/4	.665	.800
5/16	.275	.350	1	1.000	1.100

8. APPROVAL: A manufacturer shall not supply material to this specification until the samples are approved by the purchaser and after approval the constituents and/or methods of manufacture shall not be changed without written permission from the purchaser. Results of the tests of incoming shipments shall be as good as those on the approved samples.

9. REJECTIONS: Material not conforming to this specification or modifications specified on the drawing or the purchase order, is subject to rejection. If samples for verification are desired by the vendor, they must be claimed within three weeks. Rejected material or parts will be held for a reasonable time, at the vendor's risk awaiting shipping instructions for the return of same for credit or replacement, as specified. Vendor shall pay all transportation charges.

NOTE: SIMILAR SPECIFICATIONS: ARMY 8-15; Navy 27-F-7, style F-13 and SAE F-13 are listed for information only and are not to be construed as acceptable alternates unless all the requirements of the AMS are met.