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AEROSPACE MATERIAL SPECIFICATIONS

AMS 3232H

Issued Revised

3-13-40 2-15-65

SOCIETY OF AUTOMOTIVE ENGINEERS, Inc.

485 Lexington Ave., New York 17, N.Y.

ASBESTOS AND SYNTHETIC RUBBER SHEET Hot Oil Resistant

- ACKNOWLEDGMENT: A vendor shall mention this specification number and its revision letter in all quotations and when acknowledging purchase orders.
- APPLICATION: Primarily for gaskets for sealing between metal surfaces, in contact with fuels or with lubricating oil at temperatures up to 150 C (302 F).
- MATERIAL AND FABRICATION: Material shall be made from selected long fibre asbestos and heat resisting synthetic rubber compounds, bonded and felted together under pressure into a pliable, resilient product. k of an
- TECHNICAL REQUIREMENTS:
- 4.1 General:
- 4.1.1 Color: Shall be black or light gray, unless otherwise permitted. A deep tan or brown discoloration of light gray products will not be permitted.
- 4.1.2 Weathering: When specified, the product shall have weather resistance acceptable to the purchaser as determined by a procedure agreed upon by purchaser and vendor.
- 4.1.3 Delamination: The product shall not delaminate, due to sticking, when removed from an assembly.
- 4.1.4 Corrosion: The product shall not cause objectionable corrosion of aluminum, magnesium, steel, and copper alloys.
- Properties: The product shall conform to the following requirements; tests shall be performed on the 4.2
- product supplied and, except as otherwise noted, in accordance with the issue of ASTM F39 listed in the latest issue of AMS 2350, insofar as practicable. Only specimens for tensile tests of the product as received shall be conditioned. Method A shall be used for all immersion tests.
- 4.2.1 As Received:

4.2.1.1	Tensile	St	rer	igtn,	psı,	mın
		• Y				_

4000 Parallel to Direction of Rolling 2000 Perpendicular to Direction of Rolling

5 - 204.2.1.2 Compressibility, %

4.2.1.3 Chloride Content as Cl. %, max 0.35See Note 1

4.2.2 Non-Aromatic Fuel Resistance:

ASTM Ref. Fuel A Medium:

(Immediate Deteriorated Properties) Temperature: 20 - 30 C

(68 - 86 F)

Time: 5 hr

4.2.2.1 Thickness Change, % max 0 to + 10

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4.2.2.2 Thickness Change on Drying (after 5 hr non-aromatic fuel immersion) at 70 C \pm 1 (158 F \pm 1.8) for 48 hr, %, max

-5

4.2.2.3 Compressibility, %, max 25

4.2.2.4 Disintegration

None

4.2.3 Lubricating Oil Resistance:

Medium:

ASTM Oil No. 1

(Immediate Deteriorated Properties)

Temperature: 150 C ± 3

 $(302 \text{ F} \pm 5.4)$

Time:

4.2.3.1 Tensile Strength Change, %, max -20

4.2.3.2 Thickness Change, %

4.2.3.3 Compressibility, %, max

to view the

4.2.3.4 Bend 180 deg around diameter equal to 12T for thicknesses 1/16 in. and under or 16T for thicknesses over 1/16 in.

4.2.4 Dry Heat Resistance:

No cracks PDF of ame 32

Temperature: 100 C ± 1

 $(212 F \pm 1.8)$

Time:

16 hr

4.2.4.1 Compressibility, %

4.2.4.2Bend 180 deg around diameter equal to 12T for thicknesses 1/16 in. and under or 16T for thicknesses over 1/16 in.

No cracks

- Note 1. Weigh out a 5 g sample, cut (n)1/8 in. squares. Place in Erlenmeyer flask of suitable size. Add 150 ml of distilled water, boil for 1 hr, and filter. Wash flask and sample with distilled water. Cool filtrate and washings to room temperature and dilute to 200 milliliters. Titrate with 0.1 N silver nitrate solution using potassium chromate as the indicator. Run a blank determination on distilled water. Subtract the value for the blank from that for the sample. Calculate per cent chlorine in the sample.
- QUALITY: The product shall be uniform in quality and condition, clean, sound, smooth, and free from foreign materials and from imperfections detrimental to fabrication, appearance, or performance of parts.
- **TOLERANCES:** Unless otherwise specified, the following tolerances apply:

Nominal Thickness	Thickness Tolerance, Inch		
Inch	Plus	Minus	
Up to $1/64$, incl	0.005	0.002	
Over 1/64 to 1/16, excl	0.005	0.005	
1/16 and over	0.008	0.008	