

# AERONAUTICAL MATERIAL SPECIFICATION

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## AMS 3564

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Revised

### VULCANIZED FIBRE

- 1. ACKNOWLEDGMENT:** A vendor must mention this specification number in all quotations and when acknowledging purchase orders.
- 2. MATERIAL:** The material shall consist principally of gelatinized cotton paper pulp, saturated with zinc chloride, heavily compressed or rolled to the desired thickness, and leached free from gelatinizing agent.
- 3. APPLICATION:** This material is primarily for the fabrication of gaskets and reinforcements on materials used for packaging enclosures.
- 4. GENERAL REQUIREMENTS:** (a) The material must be capable of being drilled, tapped, sawed, machined, punched, and stamped in all directions without cracking or splitting.

(b) The material shall be tough and flexible to a degree which when machined will produce chips that curl instead of crumble.

(c) Unless otherwise specified, the color will be gray.

(d) **Corrosiveness.**— The material shall not produce corrosion on steel, cadmium, zinc, aluminum, or magnesium.

- 5. DETAIL REQUIREMENTS:** (a) The material shall meet the following physical and chemical properties:

Tensile Strength, lb per sq in.	
Thickness up to 1/8 inch incl.	6,000 min
Thickness 1/8 to 1/2 in.	5,500 min
Compressive Strength, lb per sq in.	20,000 min
Ash	7.0% max
Silica	0.3% max
Zinc Chloride	0.2% max

- (b) The minimum specific gravity shall be as follows:

<u>Thickness, inch</u>	<u>Specific Gravity</u>
Under 0.010	0.90
0.010 to 3/32 incl.	1.15
Over 3/32 to 1/2 incl.	1.20

(c) The water absorption (increase in weight) after immersion at 77°F ± 5°F (25°C ± 2.8°) shall not exceed the following:

<u>Thickness, inch</u>	<u>2 Hour Immersion</u>	<u>24 Hour Immersion</u>
1/8 and Under	55%	65%
Over 1/8 to 3/8, incl.	25%	60%
Over 3/8 to 1/2, incl.	15%	35%