

AERONAUTICAL MATERIAL SPECIFICATION

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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:

Thickness, inch

Specific Gravity

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:

Thickness, inch

2 Hour Immersion

24 Hour Immersion

1/8 and Under

55%

65%

Over 1/8 to 3/8, incl.

25%

60%

Over 3/8 to 1/2, incl.

15%

35%