

AERONAUTICAL MATERIAL SPECIFICATION

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GASKETS, TYPE XX ENGINE ACCESSORY DRIVE Corrosion Resistant Steel Screen Reinforced

1. **ACKNOWLEDGMENT:** A vendor shall mention this specification number and its revision letter in all quotations and when acknowledging purchase orders.
2. **FORM:** Finished gaskets.
3. **APPLICATION:** Primarily for use between propeller controls and aircraft power plant control mounting pads.
4. **MATERIAL AND FABRICATION:** Gasket shall consist of screen made from corrosion resistant steel wire of 18Cr-8Ni type firmly bonded between two thicknesses of gasket material.
5. **TECHNICAL REQUIREMENTS:**
 - 5.1 **General:**
 - 5.1.1 **Corrosion:** Gaskets shall not have a corrosive effect on other materials when exposed to conditions normally encountered in service. Discoloration of metal shall not be considered objectionable.
 - 5.1.2 **Removability:** Gaskets shall be removable from an assembly without delamination due to excessive sticking.
 - 5.2 **Properties:** Unless otherwise specified, gaskets shall conform to the following requirements; tests shall be performed on the gaskets in accordance with listed ASTM methods, insofar as practicable.
 - 5.2.1 **As Received:**

5.2.1.1 Compressibility, %, max	35	See Note 1
5.2.1.2 Compression Set, %, max	15	See Note 1
5.2.1.3 Adhesion between components, lb per in., min	8	See Note 2
5.2.1.4 Leakage	No perceptible accumulation of oil at the periphery and not more than 1 drop per min. leakage from any internal opening.	See Note 3
 - 5.2.2 **Lubricating Oil Resistance:**
(Immediate Deteriorated Properties)

	ASTM D471-52T
	Medium: ASTM Oil No. 1
	Temperature: 212 F \pm 2
	Time: 70 hr
- 5.2.2.1 Thickness Change (Method A), % 0 to +10

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5.2.2.2	Compressibility, %, max	35
5.2.2.3	Compression Set, %, max	25
5.2.2.4	Decomposition	None
5.2.2.5	Surface Tackiness	None
5.2.2.6	Adhesion between components, lb per in., min	6

5.2.2.7 Leakage No perceptible accumulation of oil at the periphery and not more than 1 drop per min. leakage from any internal opening.

5.2.3 Non-Aromatic Fuel Resistance:
Ø (Immediate Deteriorated Properties)

ASTM D471-52T

Medium: ASTM Ref. Fuel A

Temperature: 70-85 F

Time: 5 hr

5.2.3.1 Thickness Change (Method A), % 0 to +15

5.2.3.2 Compressibility, %, max 45

5.2.3.3 Compression Set, %, max 25

5.2.3.4 Leakage No perceptible accumulation of oil at the periphery and not more than 1 drop per min. leakage from any internal opening.

5.2.4 Water Resistance:
(Immediate Deteriorated Properties)

ASTM D471-52T

Medium: Distilled Water

Temperature: 70-85 F

Time: 24 hr

Ø 5.2.4.1 Thickness Change (Method A), % 0 to +15

5.2.5 Dry Heat Resistance:
(Properties 10-15 min. after removal)

ASTM D573-53

Temperature: 212 F ± 2

Time: 70 hr

5.2.5.1 Compressibility, %, max 25

5.2.5.2 Compression Set, %, max 15

5.2.5.3 Leakage No perceptible accumulation of oil at the periphery and not more than 1 drop per min. leakage from any internal opening.