

SF 5000 is an NBR based, non-asbestos sheet sealing material, reinforced with carbon and aramid fibers. SF 5000 is suitable for use in a wide range of industrial applications including oils, fuels, steam, water and dilute acids. SF 5000 is especially suitable for sealing caustic liquors. Properties based on 1/32" thick material, except as otherwise noted.

**SERVICE**

Max T (at min. thickness)	440°C (824°F)
Max P (at min. thickness)	14.00 MPa (2030 psi)
pH Range	3 - 14

**PHYSICAL PROPERTIES**

Color	Black
Density	1.60g/cc (100 lb/ft <sup>3</sup> )
Sheet Thickness	0.50 mm - 3.20 mm (1/64" - 1/8")
Sheet Size	1.50 m x 1.50 m (60" x 60"), 1.5 x 3.0m (60" x 120")

**MECHANICAL PROPERTIES (ASTM F152)**

Cross Grain Tensile	18.10 MPa (2625 psi)
With Grain Tensile	48.30 MPa (7005 psi)

**IMMERSION PROPERTIES (ASTM F146)**

Thickness Increase	Oil #3 @ 300°F	3%
	Fuel B @ 70 - 85°F	5%
Weight Increase	Oil #3 @ 300°F	10%
	Fuel B @ 70 - 85°F	12%

**SEALING PROPERTIES**

ASTM F36J	Compressibility	7.5%
	Recovery	64%
ASTM F37A	Fuel A @ 50 psi & 1000 psi Gasket Stress	0.87 mL/hr
ASTM F38	Creep Relaxation	22.2%
DIN 3754	Nitrogen Gas Permeability	0.05 mL/min

**NON-ASBESTOS SHEET MATERIAL**

**SF 5000**

**PRODUCT PROFILE**

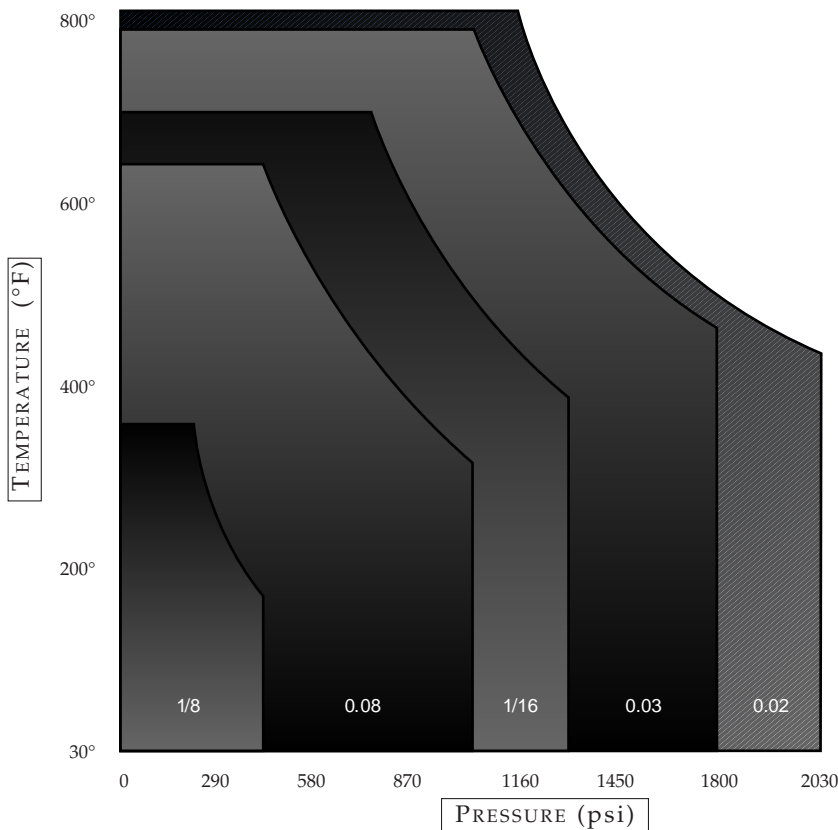
**DESIGN INFORMATION**

FSA Gasket Constants	m	3.7
	y	23.00 MPa (3335 psi)
PVRC Constants (1/16" thick)	Gb	N/A
	a	N/A
	Gs	N/A
Recommended Surface Finish	3.2 - 6.3 μm (125-250 μin)	
Dielectric Strength	N/A	
ASTM Callout	712120M6†	<i>† some digits may be chosen differently</i>

**PRESSURE CONTAINMENT AND TEMPERATURE**

SF 5000 Thickness (in)	0.020"	0.030"	1/16"	0.080"	1/8"
Max. Temperature (°F)	824	806	752	662	392
Max. Pressure (psi)	2030	1800	1305	1015	435

NOTE: Above pressure / temperature cannot be used simultaneously.



**MAJOR MANUFACTURING PLANTS**

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