

AF 2100 is an NBR reinforced glass fiber sheet. Recommended for sealing steam, water, gases, oils, mild acids, alkalis, and general chemical media. The data given below is based on a 1/32" thick sheet, except as otherwise noted.

**SERVICE**

Max T (at min. thickness)	475°C (887°F)
Max P (at min. thickness)	14.00 MPa (2030 psi)
pH Range	3 - 11

**PHYSICAL PROPERTIES**

Color	Blue
Density	1.60g/cc (100 lb/ft <sup>3</sup> )
Sheet Thickness	0.40 mm - 2.00 mm (1/64" - 0.080")
Sheet Size	1.50 m x 1.50 m, 1.50 m x 3.00 m (60" x 60", 60" x 120")

**MECHANICAL PROPERTIES (ASTM F152)**

Cross Grain Tensile	12.00 MPa (1740 psi)
With Grain Tensile	40.00 MPa (5800 psi)

**IMMERSION PROPERTIES (ASTM F146)**

Thickness Increase	Oil #3 @ 300°F	5%
	Fuel B @ 70 - 85°F	10%
Weight Increase	Oil #3 @ 300°F	18%
	Fuel B @ 70 - 85°F	19%

**SEALING PROPERTIES**

ASTM F36J	Compressibility	18%
	Recovery	68%
ASTM F37A	Fuel A @ 50 psi & 1000 psi Gasket Stress	0.4 mL/hr.
ASTM F38	Creep Relaxation	16%
DIN 3754	Nitrogen Gas Permeability	0.03 mL/min

**NON-ASBESTOS SHEET MATERIAL**

**AF 2100**

**PRODUCT PROFILE**

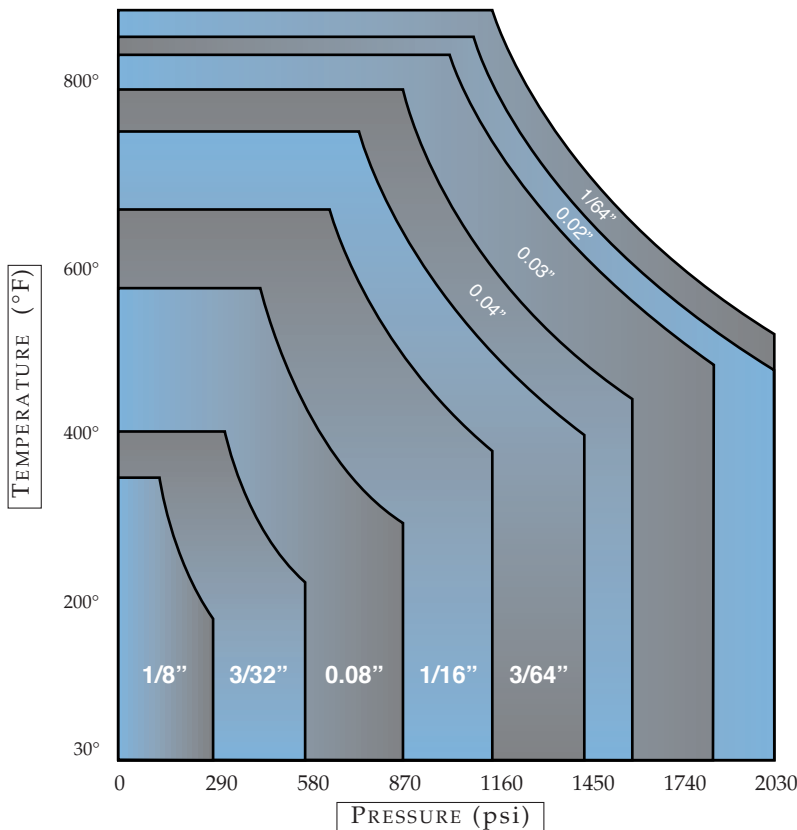
**DESIGN INFORMATION**

FSA Gasket Constants	m	3.7
	y	23.00 MPa (3335 psi)
PVRC Constants (1/16" thick)	Gb	1767 psi
	a	0.22
	Gs	65.187 psi
Recommended Surface Finish	3.2 - 6.3µm (125-250µin)	
Dielectric Strength	6.10 kV/mm	
ASTM Callout	F713140M5 †	<i>† some digits may be chosen differently</i>

**PRESSURE CONTAINMENT AND TEMPERATURE**

AF 2100 Thickness (in)	1/64"	0.02"	0.03"	0.04"	3/64"	1/16"	0.08"	3/32"	1/8"
Max. Temperature (°F)	887	860	842	797	752	662	572	410	356
Max. Pressure (psi)	2030	2030	1800	1595	1450	1160	870	580	290

NOTE: Above pressure / temperature cannot be used simultaneously.



**Calle Pino # 25-A Col.  
Bosques de Ixtacala, Atizapán  
de Zaragoza, Edo. de Méx.  
C.P. 52919 Tel/Fax:0155  
26029952 Cel:044 55 14 98  
42 66 Nextel: 62\*219922\*1  
antonio013@prodigy.net.mx**

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