

SF 3100

Flexitallic SF 3100 is a high performance aramid fiber based sheet sealing material bound with high quality nitrile rubber.



GENERAL INFORMATION

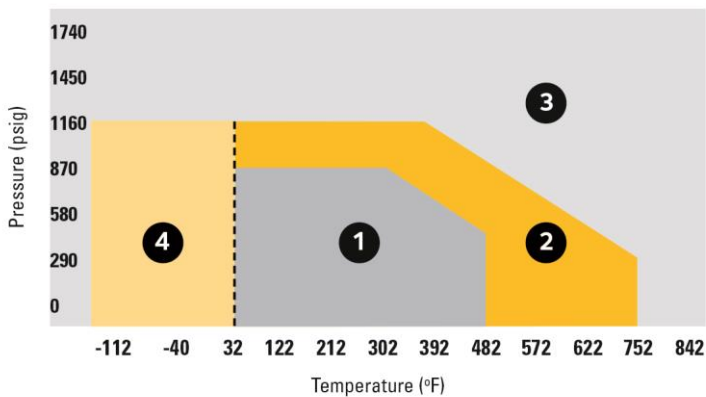
Colour	Blue
Appropriate Applications	Hot/Cold Water, Steam, Oils, Gasoline, Aliphatic Hydrocarbons, General Chemicals
Approvals	BS 7531 Grade Y
ASTM Line Call Out F104	F711121B3E34L151M6

TYPICAL TECHNICAL DATA

<i>For thickness 1/16"</i>			
Temperature °F (°C)			
Min:			-112 (-80)
Max:			752 (400)
Continuous Service Max:			428 (220)
Pressure psig (barg):			
Max:			1740 (120)
Continuous Service Max:			1160 (80)
Compressibility (%)	ASTM F36		9
Recovery (%)	ASTM F36		57
Creep Relaxation (%)	ASTM F38		20
Increase after Fluid Immersion		Oil 3	Fuel B
Thickness (%)	ASTM F146	2	10
Weight (%)	ASTM F146	8	15
Compressibility (%)	ASTM F146	8	
Tensile, Across Grain, psi (N/mm²)	ASTM F152		2150 (15)
Density, lb/ft³ (gm/cm³)	ASTM F1315		109 (1.75)
Design Factors			
"m" factor	ASTM F3149-15		3.6
"y" factor, psi (N/mm ²)	ASTM F3149-15		2765 (19)

SEALING CHARACTERISTICS	ASTM F37B - Fuel A	ASTM F37B - Nitrogen	BS 7531 - Nitrogen
Thickness (")	1/32	1/32	1/16
Gasket load, psi (N/mm ²)	500 (3.5)	3000 (20.7)	4640 (32)
Internal pressure, psig (barg)	9.8 (0.7)	30 (2)	580 (40)
Leakage	0.2ml/hr	0.5ml/hr	0.1ml/min

SF 3100 Pressure/Temperature Limits (1/16" thickness)



- ① Suitable subject to chemical compatibility.
- ② Suitable but check your application requirements with Flexitallic.
- ③ Subject to review by Flexitallic technical department.
- ④ Suitability for low temperature applications is dependent on correct flange and bolt material selection, check your application requirements with Flexitallic.

Data for other thicknesses available on request.

AVAILABILITY

Sheet Dimensions	60" x 60", 120" x 60", 240" x 60", 80" x 80"
Thickness Range	1/64", 1/32", 1/16", 1/8"
	Other sizes and thicknesses available on request
Coating	Available with release coating on both sides of sheet
Tolerances	Length and width: ± 5%
	Thickness up to 0.04": ± 0.004"
	Thickness above 0.04": ± 10%

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