

SF 3100

PRODUCT DATASHEET



SF 3100 is a general purpose aramid fibre based sheet sealing material bound with high quality nitrile rubber.

Service:

SF 3100 complies with the requirements of the BS 7531 Grade Y specification.

Suitable for use in applications involving hot and cold water, steam, oils, fuels, gases and a wide range of general chemicals.

Maximum recommended temperature: 350°C (660°F)

Maximum recommended pressure:
10 MPa (100 bar; 1450 psi)

Note:

These temperature and pressure guides cannot necessarily be used simultaneously and may not apply at all thicknesses.

Do NOT use gasket pastes.

Availability:

Sheet size:
1.5m x 1.5m (60" x 60")
2.0m x 2.0m (80" x 80")

Thickness range:
0.4mm to 6.4mm (1/64" – 1/4")

Also available with release coating.

Other sizes and thicknesses may be available on request.

Colour: Blue

This Data Sheet refers to the material as supplied. The information contained herein is given in good faith, but no liability will be accepted by the Company in relation to same.

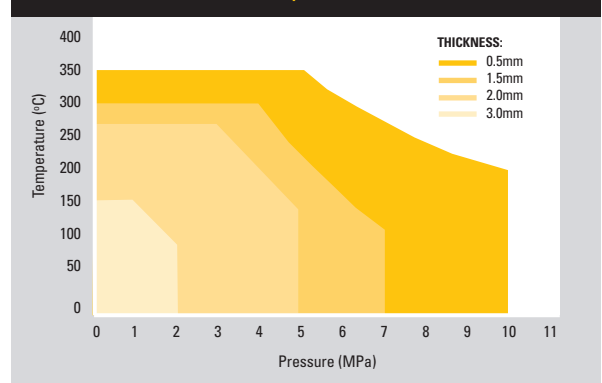
We reserve the right to change the details given on this Data Sheet as additional information is acquired. Customers requiring the latest version of this Data Sheet should contact our Applications Engineering Department.

The information given and, in particular, any parameters, should be used for guidance purposes only. The Company does not give any warranty that the product will be suitable for the use intended by the customer.

Health & Safety

For further Health and Safety information please see the relevant Material Safety Datasheets or contact Flexitallic Ltd.

SF 3100 – PRESSURE / TEMPERATURE LIMITS



Typical Physical Properties:

Thickness	-	1.5mm (0.06")
Density	-	1.8 g/cm ³ (112 lb/ft ³)
Compression	ASTM F36	9%
Recovery	ASTM F36	> 50%
Tensile Strength (cross grain)	ASTM F152	8 MPa (1160 psi)
Residual Stress (300°C)	BS 7531	> 22 MPa (>3191 psi)
Gas Leakage	BS 7531	0.3 mL/min (0.3 cc/min)
Liquid Leakage (1000 psi gasket stress, 10 psi liquid pressure)	ASTM F37	0.9 mL/hr (0.9cc/hr)

Immersion Tests:

ASTM F146 Oil 3	Thickness	0.5%
	Weight	9.5%
ASTM F146 Fuel B	Thickness	8.9%
	Weight	14.1%

ASTM F104 Line Callout: 712120M4

Gasket Design Constants:

ASME	m	3.2
	Y	2900 psi
PVRC	Gb	290 psi
	a	0.383
	Gs	2.29 psi



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