

Flexitallic®

PRODUCT DATASHEET

SF 2800

Flexitallic SF 2800 is an aramid fibre based sheet sealing material bound with a high quality nitrile rubber. SF 2800 complies with the requirements of the BS 7531 Grade Y Specification.



Service:

Suitable for use across a broad spectrum of industrial applications involving steam (including super-heated steam), water, oils, solvents, fuels, gases, general chemicals, dilute acids and alkalis.

Maximum recommended temperature:
400°C (750°F)

Maximum recommended pressure:
12 MPa (120 bar; 1740 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

Thickness range:
0.5mm to 5.0mm

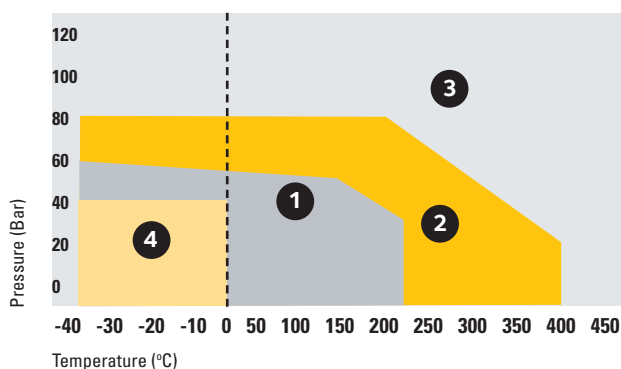
Also available with SARK III release coating on both sides.

Colour: Green

Typical Physical Properties:

Thickness	0.75mm	1.5mm
Density	1.79gcm ⁻³	1.84gcm ⁻³
ASTM Compressibility	7.0%	7.5%
ASTM Recovery	54%	56%
ASTM Tensile Strength	14 MPa	15 MPa
BS Residual Stress	31.4 MPa	24.0 MPa
DIN Gas Permeability	≤0.2mL/min	≤0.2mL/min
ASTM Oil 3 Thickness Increase	1.7%	2.0%
ASTM Fuel B Thickness Increase	3.8%	3.4%
ASTM Oil 3 Weight Increase	7.0%	7.4%
ASTM Fuel B Weight Increase	10.2%	8.1%

SF 2800 Pressure/Temperature Limits



- 1 Suitable subject to chemical compatibility.
- 2 Suitable in some cases but check your application requirements with Flexitallic.
- 3 Contact the Application Engineering Team for applications with higher temperatures and pressures, or cryogenic applications. Applicable to 1.5mm and below.

The operating temperature of non-asbestos sheet material is related to the thickness of materials selected. Thinner materials give better temperature and pressure properties.

- 4 Suitability for cryogenic applications is dependent on correct flange and bolt material selection.

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.

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Health & Safety:

Because of the binding processes which take place during manufacture, the product is believed to present no health and safety hazard and, under normal handling and use it is unlikely that the product will give rise to significant levels of exposure to constituent materials.

Flexitallic SF 2800 is reinforced with aramid fibres. Mineral wool and crystalline silica are present in the filler system.

Under harsh mechanical treatment (e.g. high speed stamping operations or abrasion) or if the product has become embrittled by high temperature applications, the constituents may give rise to irritant dust which, in extreme cases of exposure, could lead to more serious respiratory problems. Mineral Wool is classified by the IARC as a Group 2B material 'possibly carcinogenic to humans'. Occupational exposure to such dusts should therefore be minimised and kept below relevant national exposure limits. Flexitallic has adopted an in-house fibre Control Limit of 0.5 fibre per millilitre of air (8 hour TWA) for asbestos-free fibres which may be respirable.

Good standards of hygiene should be applied during gasket cutting operations and off-cuts should be disposed of by transfer to a site appropriately licensed to accept industrial materials of this nature.

Although the reinforcing fibres and fillers are inherently flame resistant, at elevated temperatures or in a sustained fire, decomposition will occur and give rise to irritant and in some instances harmful or toxic fumes.

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