

# Flexitallic®

## PRODUCT DATASHEET

# SF 2500

Flexitallic SF 2500 is an acid resistant calendered sheet sealing material reinforced with a blend of organic and inorganic fibres and bound in a specially formulated synthetic rubber binder matrix.



### Service:

SF 2500 is specially recommended for use in applications where mineral acids have to be sealed. It gives excellent performance in concentrated sulphuric and hydrochloric acids and can be used to seal nitric acid at concentrations up to 50% and temperatures up to 65°C. SF 2500 can also be used to seal a wide range of chemicals including oils, fuels, solvents, alkalis, water and steam.

Maximum recommended temperature:  
200°C (390°F)

Maximum recommended pressure:  
6.0 MPa (60 bar; 870 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

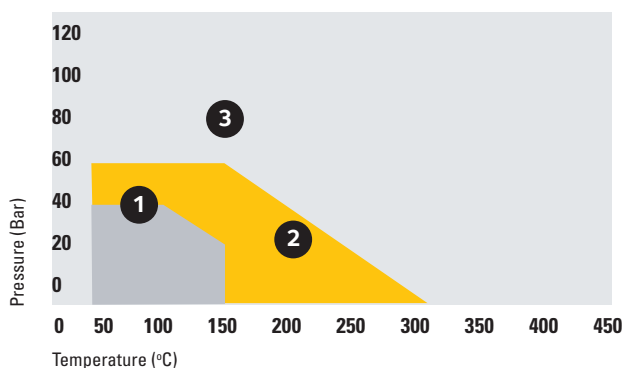
Thickness range:  
0.75mm to 3.0mm

**Colour:** One side white, one side beige

### Typical Physical Properties:

Thickness	1.5mm
Density	1.8gcm <sup>-3</sup>
ASTM Compressibility	9%
ASTM Recovery	49%
ATSM Tensile Strength	8 MPa
Thickness Increase - 96% Sulphuric acid	10% Max
Thickness Increase - 50% Nitric acid at 65°C	8% Max

SF 2500 Pressure/Temperature Limits



- 1 Suitable subject to chemical compatibility.
- 2 Suitable in some cases but check your application requirements with Flexitallic. Contact the Application Engineering Team for applications with higher temperatures and pressures. Applicable to 1.5mm and below.
- 3 The operating temperature of non-asbestos sheet material is related to the thickness of materials selected. Thinner materials give better temperature and pressure properties.

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 2500 is reinforced with aramid fibres. Mineral wool, crystalline silica and clay 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.