PRODUCT DATASHEET

SF 5001

Flexitallic SF 5001 is an NBR based, asbestos-free sheet sealing material, reinforced with synthetic fibres and graphite flake.



SERVICE:

Suitable for use in a wide range of industrial applications including oils, fuels, steam, water and dilute acids. SF 5001 is especially suitable for sealing strong caustic liquors.

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

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

Note:
These temperature and pressure guides are sealing media sensitive and 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 4mm

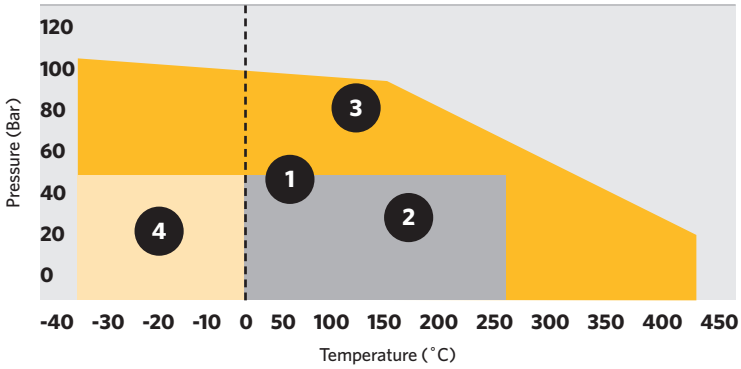
Also available with Sark III release coating on both sides.

Colour: Black

TYPICAL PHYSICAL PROPERTIES:

Thickness	**1.5mm**
Density	1.65gcm^{-3}
ASTM Compressibility	8.7%
ASTM Recovery	62%
ASTM Tensile Strength	11 MPa
BS Residual Stress	20 MPa
BS Gas Permeability	0.47mL/min

SF 5001 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.

Flexitallic®

PRODUCT DATASHEET

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 5001 is reinforced with synthetic fibres and flake graphite.

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. 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.

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.