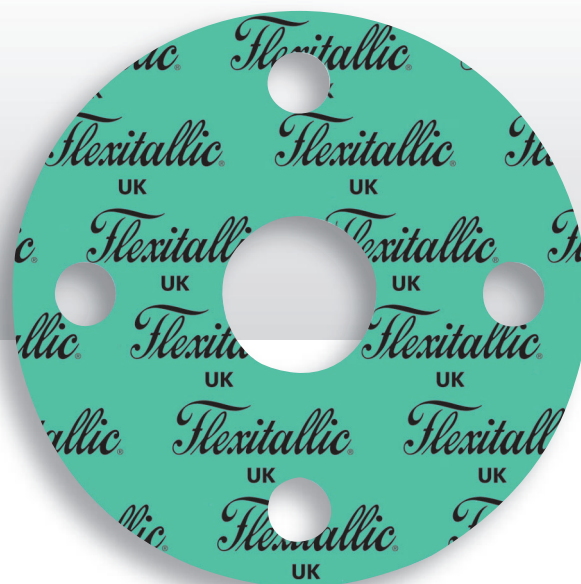


Flexitallic®

PRODUCT DATASHEET

SF 2400

Flexitallic SF 2400 is a general purpose aramid fibre based sheet sealing material bound with high quality nitrile rubber. SF 2400 complies with the requirements of the BS 7531 Grade Y specification.



Service:

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.

WRAS approved for use with potable water.

Do NOT use gasket pastes.

Availability:

Sheet size:
1.5m x 1.5m
2.0m x 1.5m

Thickness range:
0.5mm to 3.0mm

Also available with release coating on both sides.

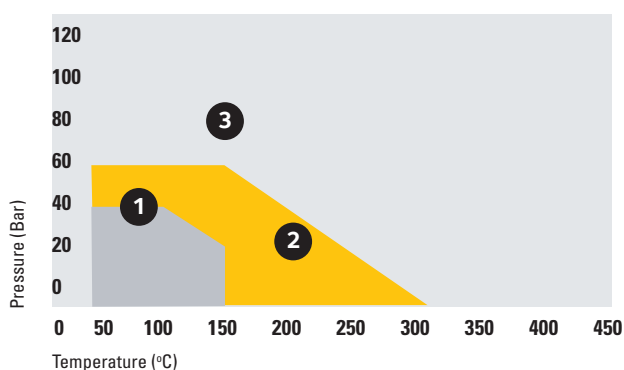
Other sizes and thicknesses may be available on request

Colour: Green

Typical Physical Properties:

Thickness	0.75mm	1.5mm
Density	1.79gcm ⁻³	1.84gcm ⁻³
ASTM Compressibility	6.8%	7.7%
ASTM Recovery	> 50%	> 50%
ATSM Tensile Strength	> 12 MPa	> 13 MPa
BS Residual Stress	> 29 MPa	> 22 MPa
DFIN Gas Permeability	< 0.3 mL/min	< 0.3 mL/min

SF 2400 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. 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.

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Flexitallic®

PRODUCT DATASHEET

SF 2401

Flexitallic SF 2401 is an aramid fibre based sheet sealing material bound with a high quality nitrile rubber.



Service:

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

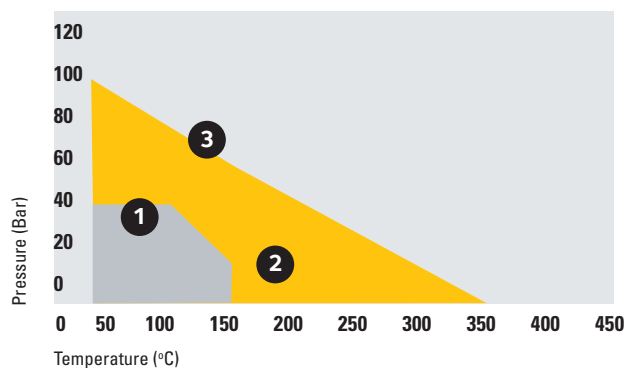
Thickness range:
0.5mm to 5.0mm

Colour: Green

Typical Physical Properties:

Thickness	1.5mm	3.0mm
Density	2.0gcm ⁻³	2.0gcm ⁻³
ASTM Compressibility	8%	8%
ASTM Recovery	48%	48%
ASTM Tensile Strength	8 MPa	8 MPa
BS Residual Stress	20 MPa	8 MPa
DIN Gas Permeability	<0.1mL/min	<0.1mL/min
Thickness Increase Fuel B	10%	8%
Thickness Increase Oil 3	1%	1%
Weight Increase Fuel B	11%	10%
Weight Increase Oil 3	7%	6%

SF 2401 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. 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.

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**FLEXITALLIC
SF 2440**

FLEXITALLIC LIMITED

SCANDINAVIA MILL HUNSWORTH LANE
CLECKHEATON WEST YORKSHIRE BD19 4LN
TEL: 01274 851273 FAX: 01274 851386

**PRODUCT
REFERENCE:**

FLEXITALLIC SF 2440

DESCRIPTION:

SF 2440 is a polychloroprene (Neoprene) rubber based, asbestos-free sheet sealing material reinforced with aramid fibres.

COLOUR:

Black

SERVICE:

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

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

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

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

Do NOT use gasket pastes

TYPICAL PHYSICAL PROPERTIES:

Thickness		0.75 mm (1/32")	1.5 mm (1/16")
Density	gcm ⁻³	1.83	1.85
ASTM Compressibility	%	10.7	8.5
ASTM Recovery	%	47	43
ASTM Tensile Strength	MPa	8	10
DIN Gas Permeability	mL/min	0.01	0.01
Thickness Increase Oil 3	%	12	7
Thickness Increase Fuel B	%	13	9
Weight Increase Oil 3	%	14	9
Weight Increase Fuel B	%	16	10
ASTM Creep Relaxation	%	22	—

AVAILABILITY:

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

Thickness range : 0.5 mm to 3.2 mm (0.020" to 0.125")

Also available with SARK III release coating on both sides.

PDS 152 01/08

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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

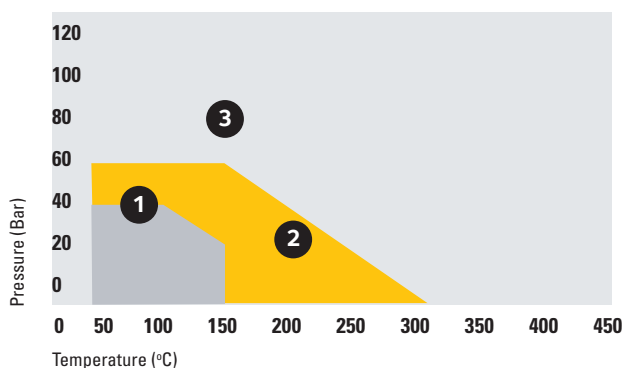
Thickness range:
0.75mm to 3.0mm

Colour: One side white, one side beige

Typical Physical Properties:

Thickness	1.5mm
Density	1.8gcm ⁻³
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.

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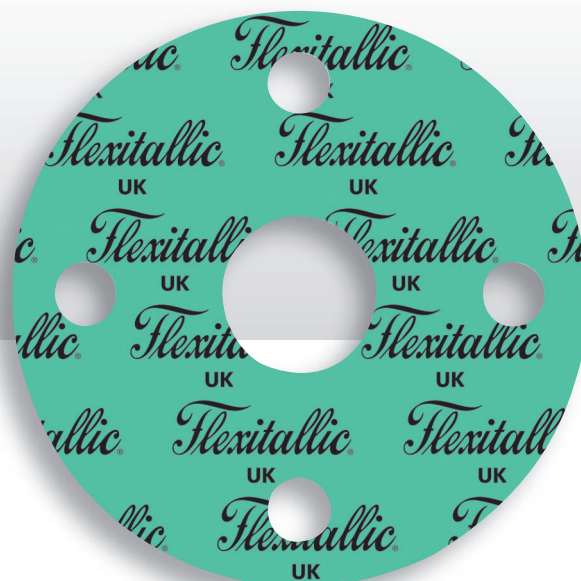
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PRODUCT DATASHEET

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.

WRAS approved for use with potable water.

Do NOT use gasket pastes.

Availability:

Sheet size:
1.5m x 1.5m

Thickness range:
0.5mm to 5.0mm

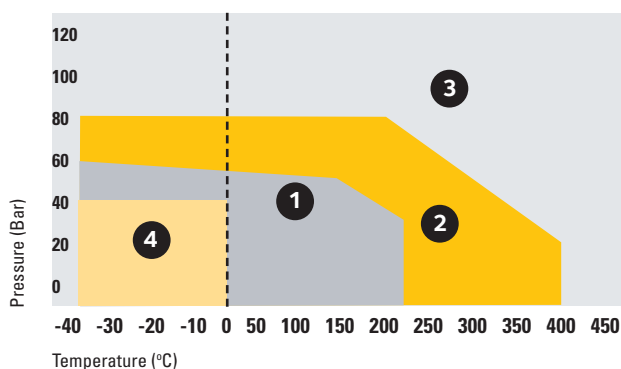
Also available with SARK III release coating on both sides.

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.

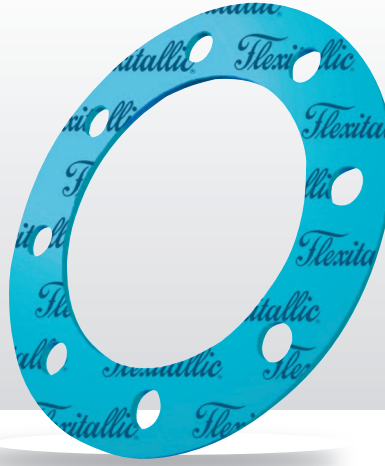
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PRODUCT DATASHEET

SF 3100



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
2.0m x 1.5m

Thickness range:
0.5mm to 3.0mm

Also available with release coating on both sides.

Other sizes and thicknesses may be available on request

Colour: Blue

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Health & Safety

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

Typical Physical Properties:

Thickness	0.75mm	1.5mm
Density	1.79gcm ⁻³	1.84gcm ⁻³
ASTM Compressibility	6.8%	7.7%
ASTM Recovery	> 50%	> 50%
ASTM Tensile Strength	> 12 MPa	> 13 MPa
BS Residual Stress	> 29 MPa	> 22 MPa
DIN Gas Permeability	< 0.3mL/min	< 0.3mL/min

PRODUCT DATASHEET

SF 3300

Flexitallic SF 3300 is a superior performance aramid/inorganic fibre sheet sealing material bound with a high quality nitrile rubber. SF 3300 complies with the requirements of the BS 7531 Grade X specification.



Service:

Developed for general industrial applications where an high performance asbestos free sheet is desirable. Flexitallic SF 3300 is suitable for use across a wide range of media including low and intermediate pressure steam, oils, fuels, solvents and mild chemicals.

Maximum recommended temperature:
440°C (825°F)

Maximum recommended pressure:
14 MPa (140 bar; 2030 psi)

Note:

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

WRAS approved for use with potable water.

Do NOT use gasket pastes.

Availability:

Sheet size:
1.5m x 1.5m
2.0m x 1.5m

Thickness range:
0.4mm to 3.0mm

Also available with release coating on both sides.

Other sizes and thicknesses may be available on request.

Colour: Light Yellow (pigment-free)

Typical Physical Properties:

Thickness	0.75mm	1.5mm
Density	1.54gcm ⁻³	1.52gcm ⁻³
ASTM Compressibility	12%	12%
ASTM Recovery	64%	63%
ATSM Tensile Strength	9 MPa	10 MPa
BS Residual Stress	35 MPa	27 MPa
DIN Gas Permeability	0.04mL/min	<0.07mL/min
ATSM Oil 3 Thickness Increase	4%	3%
ATSM Fuel B Thickness Increase	6%	4%

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Flexitallic®

PRODUCT DATASHEET

SF 4300

Flexitallic SF 4300 is a premium compressed sheet gasket material based on a blend of organic and glass fibres, bound with a high quality rubber binder.

Service:

SF 4300 is a high performance gasket material suitable for sealing in a wide range of demanding applications involving, water, oils, fuels, hydrocarbons, refrigerants, mild acids and alkalis.

Supplied as standard with anti-stick coating.

Approvals:

TA-LUFT (in accordance with VDI Guideline 2440) at 200°C

API-6FB Fire test

BS 7531 Grade X

BAM (Oxygen Service) up to 60°C and 100 bar

WRAS approved for use with potable water.

DNV GL Approved – TAP000010D

Availability:

Standard sheet sizes:

1.5m x 1.5m

2.0m x 1.5m

6.0m x 1.5m

6.0m x 2.0m

Thickness range:

0.50mm to 3.0mm

Other thicknesses may be available on request.

Also available with gauze mild steel wire reinforcement.

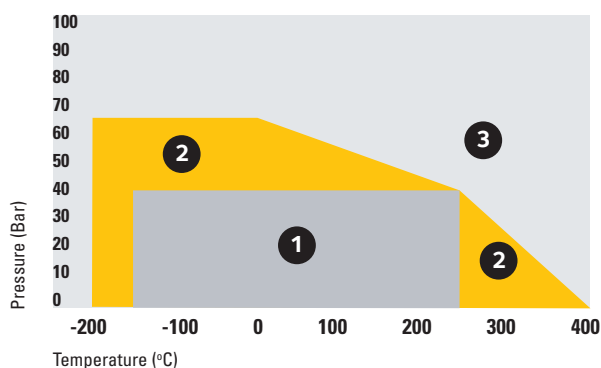
Colour: 1 side white / 1 side green



Typical Physical Properties:

Density	1.86gcm ⁻³
ASTM F36 Compressibility	9%
ASTM F36 Recovery	52%
Stress Relaxation DIN 52913, 50 MPa, 16h/175°C	38 MPa
50 MPa, 16h/300°C	34 MPa
Stress Relaxation BS7531, 40 MPa, 16h/300°C	30 MPa
Gas Leakage DIN 3535/6	< 0.1ml/min
Thickness increase after fluid immersion, Oil No. 3: 5h/150°C	1.7%
Fuel B: 5h/23°C	5%
Chlorides	< 150ppm
Average dielectric strength	> 17kV/mm

SF 4300 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. 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.

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PRODUCT DATASHEET

SF 5000

Flexitallic SF 5000 is a premium grade sheet gasket material reinforced with carbon and aramid fibre bound with high quality nitrile (NBR) rubber. SF 5000 complies with the requirements of the BS 7531 Grade X specification.



Service:

Developed for use across a wide range of demanding industrial sealing applications requiring a high degree of long term joint integrity. SF 5000 is chemically compatible with a wide range of media including dry and wet steam, hydrocarbons and moderate chemical service. SF 5000 is ideal for use in alkaline or caustic conditions found in bauxite ore processing and the paper and pulp industry.

Maximum recommended temperature:
440°C (825°F)

Maximum recommended pressure:
14 MPa (140 bar; 2030 psi)

pH range:
3 to 14

API 6FB Fire-Safe

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, 2.0m x 1.5m

Thickness range:
0.4mm to 3.0mm

Available with steel wire reinforcement as SFM 5000.

Supplied with Sark III release coating as standard.

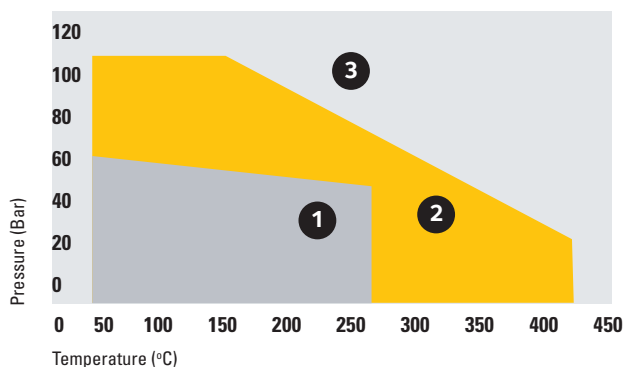
Other sizes and thicknesses may be available on request.

Colour: Black

Typical Physical Properties:

Thickness	1.5mm
Density	1.60gcm ³
ASTM Compressibility	12%
ASTM Recovery	> 55%
ASTM Tensile Strength	13 MPa
BS Residual Stress	> 25 MPa
DIN Gas Permeability	0.01mL/min
ASTM Oil 3 Thickness Increase	2.0%
ASTM Fuel B Thickness Increase	3.0%

SF 5000 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. 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.

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Flexitallic®

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 4.0mm

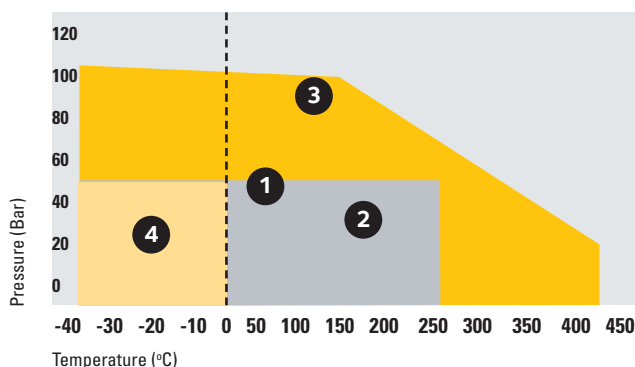
Also available with SARK III release coating on both sides.

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.

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dobson gaskets

E Dobson and Co [Gaskets] Ltd
Unit 1 Holme Mill Ind Estate
Fell Lane, Keighley
West Yorkshire, BD22 6BN



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Our highly experienced technicians can advise you on the best sheet materials and manufacturing processes for a wide range of gasket applications.

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