

PRODUCT DATASHEET



SIGMA® 500 is a high performance biaxially orientated sheet sealing material containing PTFE and hollow glass microspheres.



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

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.



Service:

SIGMA® 500 is capable of creating a seal across a wide range of gasket stress. This makes the product suitable not just for use in standard metallic flanged connections but also in load compromised bolted connections; such as those applications involving glass lined, plastic and thin or distorted metal flanges.

Suitable for sealing most chemicals across the whole pH range (0-14) with the exception of molten alkali metals, fluorine gas, hydrogen fluoride or materials which may generate these.

Recommended temperature range:

- 250°C to 260°C

Recommended pressure range:

Vacuum to 85 bar (1230 psi)

Note:

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

Complies with the requirements of FDA regulations.

WRAS Approved for use with potable water: Approval No. 1206528

TA-LUFT approved

Do NOT use gasket pastes.

Availability:

Sheet size:

1.5m x 1.5m

2.0m x 2.0m

For gaskets above sheet size welded gaskets are available.

Thickness range:

0.75mm to 3.2mm Other thicknesses may be available on request.

Colour: Blue

Typical Physical Properties:

1.5mm	3.0mm
1.4gcm ⁻³	1.4gcm ⁻³
35%	30%
44%	43%
14MPa	10MPa
30MPa	26MPa
< 0.1mL/min	< 0.1mL/min
0.65mL/hr	0.75mL/hr
31%	47%
	1.4gcm ⁻³ 35% 44% 14MPa 30MPa <0.1mL/min 0.65mL/hr

