Flexitallic

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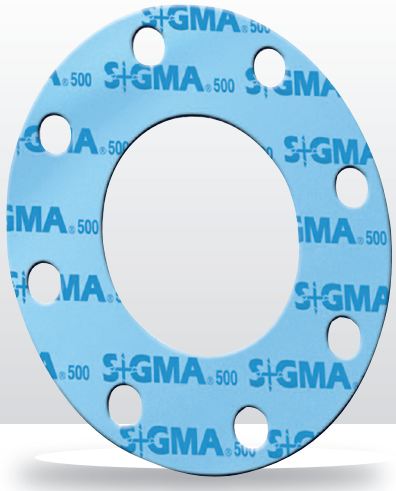
PRODUCT DATASHEET

SIGMA® 500



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

SIGMA®
INNOVATIVE. VERSATILE. COMPLETE.

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:

Thickness	1.5mm	3.0mm
Density	1.4gcm^{-3}	1.4gcm^{-3}
ASTM F36A Compressibility	35%	30%
ASTM F36A Recovery	44%	43%
ASTM F152 Tensile Strength	14MPa	10MPa
DIN 52913 Residual Stress @ 175°C	30MPa	26MPa
DIN 3535-6 Gas Permeability	< 0.1mL/min	< 0.1mL/min
ASTM F37A Liquid Leakage 1000 psi gasket stress, 50 psi Fuel A	0.65mL/hr	0.75mL/hr
ASTM F38B Creep Relaxation	31%	47%

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