Flexitallic

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PRODUCT DATASHEET

SIGMA® 800

SIGMA® 800 is a high quality expanded PTFE sheet sealing material with enhanced low stress sealing characteristics and improved blow-out resistance.

SIGMA

Service:
SIGMA® 800 is capable of creating a seal at very low stresses. This makes the product suitable not just for use in standard metallic flanged connections, but also in applications where bolt load may be restricted such as; uneven flanges, applications involving glass lined steel flanges and thin or distorted metal flanges.

Sigma 800 is suitable for sealing most chemicals across the whole pH range (0-14) with the exception of molten alkali metals and fluorine gas.

Sigma® 800 is comprised of 100% pure expanded PTFE. The product does not contain any pigments, inks or adhesives, making it suitable for clean applications.

Recommended temperature range:
-240°C to 260°C

Recommended pressure range:
Vacuum to 40 bar (580 psi)

Note:

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

Do NOT use gasket pastes.

Complies with the requirements of FDA regulations.

EC 1935/2004 tested.

TA-LUFT compliant.

Availability:
Sheet size:
1.5m x 1.5m

Thickness range:
0.5mm to 9mm

Colour: White (Pigment free)

Typical Physical Properties

Thickness		1.5mm	3.0mm
Density (+/- 10%)	g/cm³	0.8	0.8
ASTM F36A Compressibility	%	56%	57%
ASTM F36A Recovery	%	12	15
ASTM F152 Tensile Strength	MPa	22	20
DIN 52913 Residual Stress @ 175°C	MPa	25	20
DIN 3535-6 Gas Permeability	mL/min	0.02	0.02

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

The Flexitallic Group