

Technical Data Sheet

MATERIAL PROPERTIES*: **SIGMA® 500**

High performance biaxially orientated sheet sealing material containing PTFE and hollow glass microspheres.

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.

Sigma® 500 material is inherently clean, making it suitable for use in industries where product contamination may be of concern such as food, beverage and pharmaceuticals. 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, DVGW DIN 3533-6 tested, Tested in accordance to EC Regulation No. 10/2011*
 *being the specific testing requirements of EN Regulation 1935/2004

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	0.65mL/hr	0.75mL/hr
1000 psi gasket stress, 50 psi Fuel A		
ASTM F38B Creep Relaxation	31%	47%

AVAILABILITY:

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

Thickness range : 0.4 mm to 3.0 mm

Supplied with SARK III release coating as standard.

Other sizes and thicknesses may be available on request.

Notes: * This is a general guide and should not be the sole means of selecting or rejecting this material. This data sheet covers basic information, for more comprehensive information, please contact us.

Asbestos Free



Certificate Number: 14352
 ISO 9001



Care should be taken in selecting the most suitable quality for each application. Advice is available, but final responsibility remains with the customer.

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