

Technical Data Sheet

MATERIAL PROPERTIES*: SIGMA® 533

High performance biaxially orientated sheet sealing material containing PTFE with barium sulphate (barytes) filler.

Service:

SIGMA® 533 is suitable for sealing most chemicals across the whole pH range (0-14) with the exception of molten alkali metals, fluorine gas and anhydrous HF. Sigma® 533 is particularly suitable for use in applications involving strong alkalis.

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

TA-LUFT approved

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: White

Typical Physical Properties:

Thickness	1.5mm	3.0mm
Density	2.9gcm-3	2.9gcm-3
ASTM F36A Compressibility	8%	7%
ASTM F36A Recovery	43%	45%
ASTM F152 Tensile Strength	15MPa	17MPa
DIN 52913 Residual Stress @ 175°C	28MPa	19MPa
DIN 3535-6 Gas Permeability	< 0.1mL/min	< 0.1mL/min
ASTM F37A Liquid Leakage	3mL/hr	3mL/hr
<i>1000 psi gasket stress, 50 psi Fuel A</i>		
ASTM F38B Creep Relaxation	33%	51%

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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