

## 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.

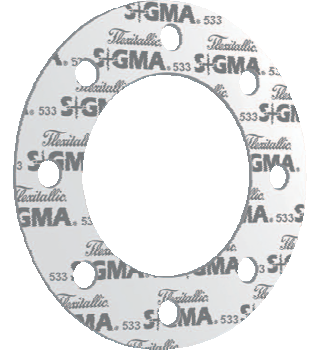
Thickness range: 0.75mm to 3.2mm, Other thicknesses may be available on request.

**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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