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Specification Sheet: *Sigma 533*

Product: *Flexitallic Sigma 533*

Description: *Sigma 533 is a sheet sealing material containing PTFE with barium sulphate filler.*

Colour: White

Service: *Suitable for sealing all chemicals across the whole pH range (0-14) with the exception of molten alkali metals, flourine gas, anhydrous HF, and sulphuric acid at concentrations >75% and at temperatures above 65°C.*

Maximum recommended temperature: 260°C (500°F)

*Maximum recommended pressure: 8.5 MPa
(85bar; 1235psi)*

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

Complies with the requirements of FDA regulations.

Physical Properties:

	<u>1.5mm thk</u>	<u>3.0mm thk</u>
<i>Density</i>	<i>2.9gcm³</i>	<i>2.9gcm³</i>
<i>ASTM Compressibility</i>	<i>12%</i>	<i>7%</i>
<i>ASTM Recovery</i>	<i>40%</i>	<i>45%</i>
<i>ASTM Tensile Strength</i>	<i>17 MPa</i>	<i>17MPa</i>
<i>DIN Residual Stress @ 175°C</i>	<i>31 MPa</i>	<i>19MPa</i>
<i>DIN Gas permeability</i>	<i>0.01 mL/min</i>	<i>0.01 mL/min</i>
<i>ASTM Liquid leakage</i>	<i>3 mL/hr</i>	<i>3 mL/hr</i>
<i>ASTM Creep relaxation</i>	<i>33%</i>	<i>51%</i>