



McGuinness Works, Mount Osborne Industrial Park,
Oakwell View, Barnsley, South Yorkshire
S71 1HH, United Kingdom
Tel: +44 (0)1226 329200 Fax: +44 (0)1226 204558
email: sales@spg-gaskets.co.uk www.spg-gaskets.co.uk

Specification Sheet: *Sigma 500*

Product: *Flexitallic Sigma 500*

Description: *Sigma 500 is a high performance biaxially orientated filled sheet sealing material containing PTFE with hollow glass microspheres. Colour: Blue*

Service: *Sigma 500 is specifically designed for use in flanges where only low bolt loading is available. Such flanges can be glass lined, ceramic, plastic or be distorted that they include areas of low gasket stress. Suitable for sealing all 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.*

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

Max recommended pressure: 8.5 MPa (85 bar: 1235 psi)

These temperatures and pressure guides cannot necessarily be used simultaneously and may not apply at all thicknesses. Complies with the requirements of FDA regulations.

Do NOT use gasket pastes.

Physical Properties:

	<u>1.5mm thk</u>	<u>3.0mm thk</u>
<i>Density</i>	<i>1.40 gcm³</i>	<i>1.40 gcm³</i>
<i>ASTM Compressibility</i>	<i>41%</i>	<i>30%</i>
<i>ASTM Recovery</i>	<i>37%</i>	<i>43%</i>
<i>ASTM Tensile Strength</i>	<i>11 MPa</i>	<i>10 MPa</i>
<i>DIN Residual Stress @ 175°C</i>	<i>33 MPa</i>	<i>26 MPa</i>
<i>DIN Gas Permeability</i>	<i>0.01 mL/min</i>	<i>0.03 mL/min</i>
<i>ASTM Liquid Leakage</i>	<i>0.65 mL/hr</i>	<i>0.75 mL/hr</i>
<i>ASTM Creep Relaxation</i>	<i>31%</i>	<i>47%</i>

ASTM Code Factors M = 1.4 Y = 13.0 MPa

Availability: *Sheet Size: 1.5m x 1.5m*
Thickness Range: 0.75mm to 3.2mm