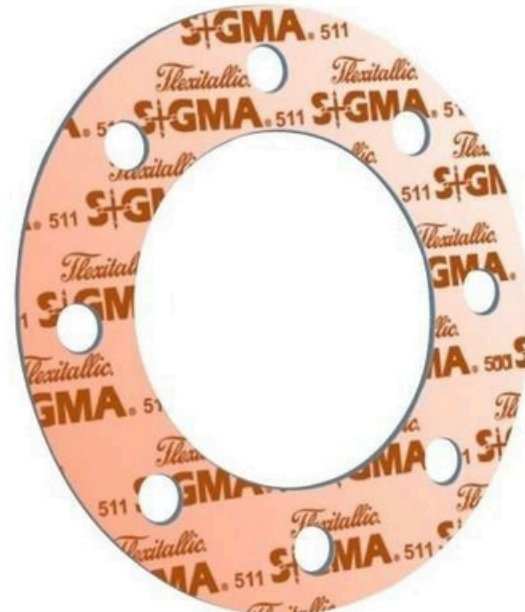


SIGMA® 511

SIGMA® 511 is a high performance biaxially orientated sheet sealing material containing PTFE with silica filler.



SERVICE:

SIGMA® 511 is 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. SIGMA® 511 is particularly suitable for use in applications involving strong acids.

Recommended temperature range:
-250°C to 260°C

Recommended pressure range:
Vacuum to 85 bar (1230 psi)

NOTES:

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

APPROVALS:

Complies with the requirements of FDA regulations.

WRAS approved for use with potable water: Approval No. 1206528.

TA-LUFT approved

BAM Oxygen

Tested in accordance to EC Regulation No. 10/2011*

*being the specific testing requirements of EN Regulation 1935/2004.

AVAILABILITY:

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

For large sizes, welded gaskets are available.

Thickness range:
0.75mm to 3.2mm

Other thicknesses may be available on request

Colour: Pink

TYPICAL PHYSICAL PROPERTIES:

Thickness	1.5mm	3.0mm
Density	2.2g/cm ³	2.2g/cm ³
ASTM F36A Compressibility	7%	7%
ASTM F36A Recovery	44%	45%
ASTM F152 Tensile Strength	16MPa	15MPa
DIN 52913 Residual Stress @ 175°C	30MPa	20MPa
DIN 3535-6 Gas Permeability	<0.1mL/min	<0.1mL/min
ASTM F37A Liquid Leakage 1000psi gasket stress, 50psi Fuel A	4mL/min	3mL/min
ASTM F38B Creep Relaxation	35%	53%