



SIGMA® 533 is a 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

Do NOT use gasket pastes.

## 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: White

## Typical Physical Properties

Thickness	1.5mm	3.0mm
Density	2.9gcm <sup>3</sup>	2.9gcm <sup>3</sup>
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
1000 psi gasket stress, 50 psi Fuel A		
ASTM F38B Creep Relaxation	33%	51%

## Waranty exclusion

In view of the variety of different installation and operation conditions as well as application and process engineering options, the information given in this datasheet can only provide approximate guidance and cannot be used as basis for warranty claims.