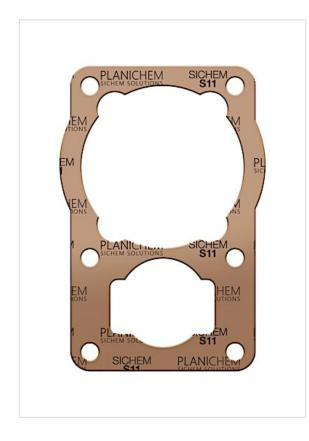


SICHEM S11



Sichem® S11 is a gasketing sheet made from biaxially oriented modified PTFE silica filled, designed for critical sealing applications involving aggressive fluids and demanding operating conditions. The oriented molecular structure and silica-based filler provide the material with excellent mechanical performance, superior hot creep resistance, and outstanding dimensional stability, even under high and prolonged loads.

- **High chemical resistance**: compatible with most corrosive fluids, strong acids, solvents, and oxidizing agents.
- **Enhanced mechanical stability**: biaxial orientation improves resistance to creep and permanent deformation.
- **Excellent workability**: easy to die-cut or CNC-machine, ensuring precision even for complex geometries.
- Low permeability coefficient: ideal for applications requiring long-term hermetic sealing.
- **Service temperature range**: from -200°C to +260°C depending on the type of fluid and applied load.

Bidirectional PTFE	Sichem S11
Composition	Modified PTFE with Silica filler
Density ASTMF 1315	2.2 g/cm³
Minimum operating temperature	-260 °C
Maximum operating temperature	260 °C
Max operating pressure	80 bar
P x T Max.(Thk 0.8 - 2.0 mm)	12000 Bar x °C
P x T Max. (Thk 3.0 mm)	8500 Bar x °C
Leakage DIN 3535-6	<0.05 mg*s-1*m-1
Creep relaxation DIN 3535-6	<24 %
Compressibility DIN 3535-6	>4 %
Recovery DIN 3535-6	>1.7 %
Minimum PH	0
Maximum PH	14
Available sheets size	1500x1500 mm 1750x1750 mm
Available thickness	0.75 mm 1.0 mm 2.0 mm 2.5 mm 3.0 mm 4.0 mm 5.0 mm 6.0 mm
Sheet size tolerance	50 mm
Thickness tolerance	10 %

