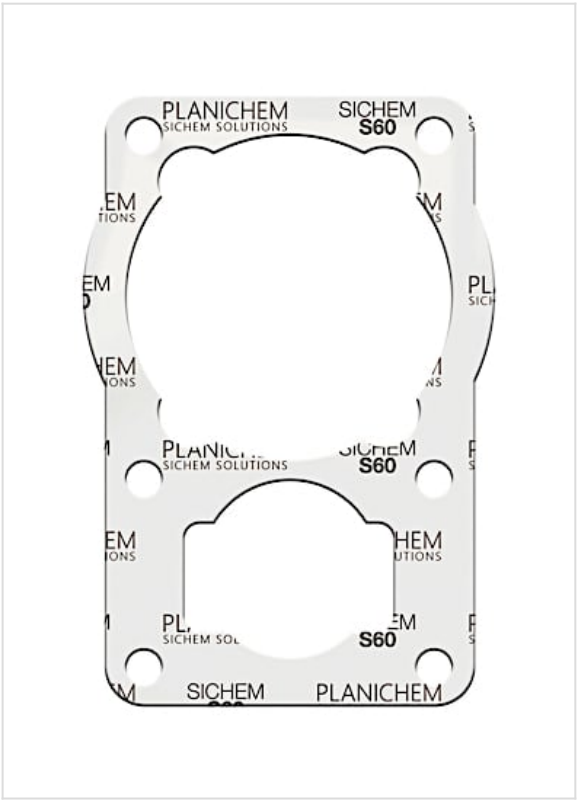
PLANICHEM
SICHEM SOLUTIONS

SICHEM S60



SICHEM® S60 is a **biaxially oriented modified microcellular PTFE gasket sheet**. Its **high compressibility** makes it suitable for use on **irregular or damaged surfaces**, making it ideal for **lined or non-metallic flanges** and for applications with **low bolt loads**. The multidirectional structure provides the material with **excellent mechanical performance**, superior resistance to **hot creep**, and optimal **dimensional stability**, even under **low and prolonged loads**.

High chemical resistance: compatible with a wide range of chemicals, including **aggressive acids, solvents, and oils**. PTFE is not compatible with: bromine trifluoride, chlorine trifluoride, fluorine dioxide, hydrogen fluoride, molten alkali metals, elemental lithium, elemental potassium, and elemental sodium. For compatibility with the filler materials used in the Sichem range, please refer to the **Chemical Compatibility List**.

Superior mechanical stability: the biaxial orientation improves resistance to creep and permanent deformation.

Excellent machinability: easy to punch and CNC cut, ensuring precision even for complex geometries.

Low permeability coefficient: ideal for applications requiring long-term tight sealing.

Operating temperature: from **–200°C to +260°C**, depending on the type of fluid and the applied load.

Bidirectional PTFE	Sichem S60
Composition	Microcellular Modified PTFE with Inorganic fillers
Density ASTMF 1315	0.85 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	<0.002 mg*s-1*m-1
Creep relaxation DIN 3535-6	<12 %
Compressibility DIN 3535-6	>55 %
Recovery DIN 3535-6	>5 %
Minimum PH	0
Maximum PH	14
Available sheets size	1.500x1.500 mm
Available thickness	0.75 ÷ 6.00 mm
Sheet size tolerance	50 mm
Thickness tolerance	10 %

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Planichem s.r.l.
Via Consolare 41/43 25030 Zocco di Erbusco (BS) - ITALY
Tel: +39 030 7386033 - www.planichem.com - info@planichem.com