



UNISIL Soft-Chem

The Softest PTFE material for applications where just minimal surface pressure are possible. Excellent compensation of Irregularities of the Sealing Surface.

UNISIL soft-chem is a 100% pure expanded PTFE Material manufactured with special process that produces a uniform and highly fibrillated microstructure with a lot of fibers running in multidirection.

UNISIL soft-chem possesses universal resistance against common chemicals, except melted alkali metal, fluorine at liquid and gas states. It is free from asbestos and other lung-intruding materials.

UNISIL soft-chem is an asbestos free material and meets the FDA requirements, doesn't have any corrosion and is able to be stored without any time limits. Also suitable for oxygen applications.

Properties:

Color:	White
Thickness:	1.5mm and 3mm (other thicknesses available on request)
Size:	1500mm x 1500mm (other sizes available on request)
Temperature range:	Suitable for -240°C up to +260°C. for short period up to 315°C
Operating pressure:	From vacuum to 3,000 psi
Chemical resistance:	Chemically inert against all substances (pH 0- 14), including the most aggressive acids and strong caustic alkaline solution (lyes). The only exceptions are molten alkali metals and elemental fluorine at high temperature and pressure.



UNI KLINGER LIMITED - AN ISO 9001 : 2015 COMPANY

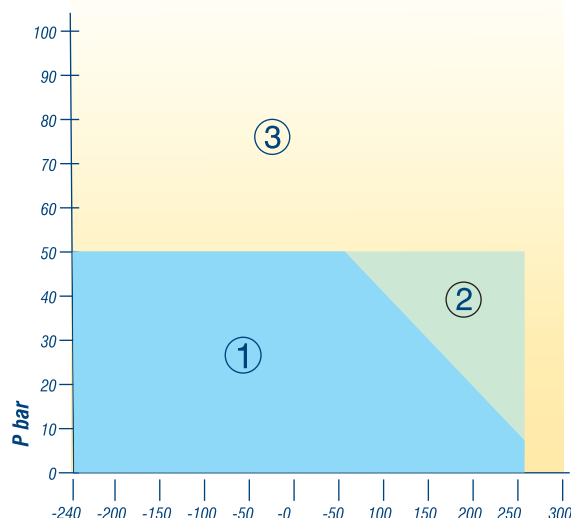


General Features:

- 100% Pure P.T.F.E.
- Good sealability
- Good flexibility
- Highly compressible
- Resistant to creep and cold flow
- Easy to cut and install
- Low compressive load to seal
- Can seal rough or damaged flanges.

Typical values for 1.5mm thickness

Compressibility ASTM F 36	%	60
Recovery ASTM F 36	%	12
Stress relaxation DIN52913 30 Mpa, 16 h / 150 °C	Mpa	15
Tensile strength DIN 52910	N/mm ²	25
Sealability ASTM F 37-B (nitrogen) @60psig	ml/hr	0.16
Density	gm/cm ³	0.85



The fields of decision

- ① If your operating temperatures and pressures fall within this field, a technical examination is normally unnecessary.
- ② If your operating temperatures and pressures are within this field, a technical examination is recommended.
- ③ If your operating temperatures and pressures are within this "open" field, a technical examination is recommended.

Also available : **KLINGER** / **UKL** Fluid Sealing Division:

Fluid Control Division:

UNISIL Compressed Non-Asbestos Gasket Sheetting
Full Range of Cut Gaskets, Metal Jacketed Heat Exchanger Gaskets
Non-Asbestos Gland Packing, Kammprofile
PISTON VALVES - Seatless & Glandless, Forged Piston Valves
STEAM TRAPS - Thermodynamic, IBT, Ball Float, Thermostatic
MANUAL & ACTUATED BALL & BUTTERFLY VALVES
STRAINERS 'Y' Type / LEVEL GAUGES - Reflex, Transparent, Bicolor
BELLOW SEALED VALVES

In view of technical progress designs and dimensions are subject to change without notice.



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COMPANY

UNI KLINGER LIMITED (Fluid Sealing Division)

A joint venture of the Neterwala group of companies and KLINGER AG, Switzerland.

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