



KLINGERtop-sil-ML1

Optimised, unique multi-layer combination of a HNBR and NBR Matrices. Premium quality jointing with high temperature resistance in steam and water as well as excellent resistance to oils and hydrocarbons.

The Klinger group has been recognised as the market leader in gaskets and sealing for over a century. Our research and development laboratories have investigated over 250 different fibre forms in the search for asbestos free alternatives. The search has resulted in a range of high quality and high performance asbestos free materials that have been proven in service.

General Properties

- Excellent creep resistance
- Good steam resistance
- Resistant to oils, fuels, hydrocarbons etc.
- WRc approved for use in hot and cold potable water
- 3xA anti-stick finish on both sides

Tests and Certifications

- BS 7531 Grade X
- WRc Approval
- DIN-DVGW
- BAM U W28 for use with oxygen 100 bar / 85°C
- KTW C55/94.Stf
- TA-Luft (Clean Air) certificate acc. VDI 2440

Availability

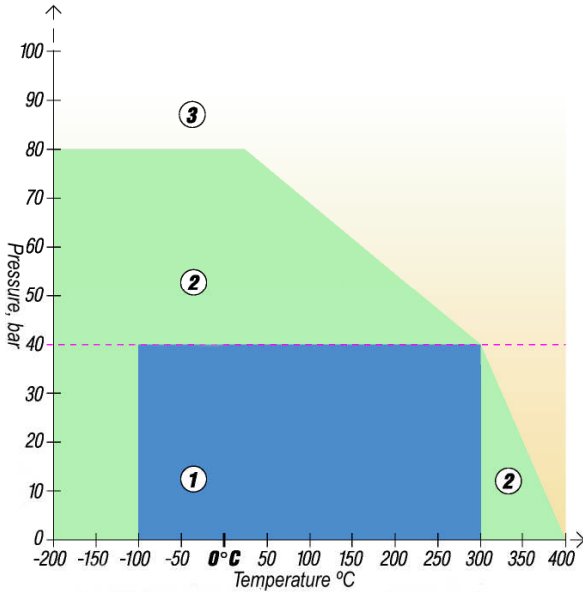
Sheeting (m): 2.0 x 1.5*, 4.0 x 1.5
 Thickness (mm): 0.8, 1.0, 1.5, 2.0, 3.0

* - Denotes standard sheet size





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Application Guidelines

1. Usually satisfactory without reference.
2. Usually satisfactory, but suggest you refer to Klinger for advice
3. Caution: May be suitable but essential that you refer to Klinger for advice.

Chemical compatibility must be considered in all cases.

Typical Specifications

Compressibility ASTM F 36 A		9%
Recovery ASTM F 36 A		>50%
Stress relaxation DIN 52913	50MPa, 16h/175°C	34MPa
	50MPa, 16h/300°C	28MPa
Klinger cold/hot compression (50MPa)	Thickness decrease 23°C	8%
	Decrease at 300°C	15%
Gas leakage according to DIN 3535/6		<0.1ml/min
Tightness Class L	DIN 28090-1	0.1
Specific leak rate λ	VDI 2440	- mbar x l/s xm
Cold Compression	DIN 28091-2	6-9%
Cold recovery	DIN 28091-2	3-5%
Hot compression	DIN 28091-2	<15%
Hot recovery	DIN 28091-2	1.3%
Spring back R	DIN 20091-2	0.026mm
Thickness increase after fluid	Oil IRM 903 5h/150°C	4%
Immersion ASTM F 146	Fuel B:5h/23°C	8%
Density		1.7g/cm ³

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