

# KLINGERtop-chem-2003

**Highly compressible, modified PTFE material with outstanding chemical resistance. Ideal for applications where bolt load is limited or where flanges are delicate e.g. glass-lined equipment.**

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 sealing in high temperatures and pressures
- Ideal for aggressive chemicals
- Excellent gas tightness properties
- Suitable for glass-lined and enamel flanges

## Tests and Certifications

- KTW Approval C829/97/St
- DIN DVGW
- FDA Conformity
- TA Luft 97 06 9502 02
- Germanischer Lloyd 98 950 – 97 HH

## Availability

- Sheet (m): 1.5 x 1.5 \*
- Thickness (mm): 1.5, 2.0, 3.0

\* Also available in Off-White both sides

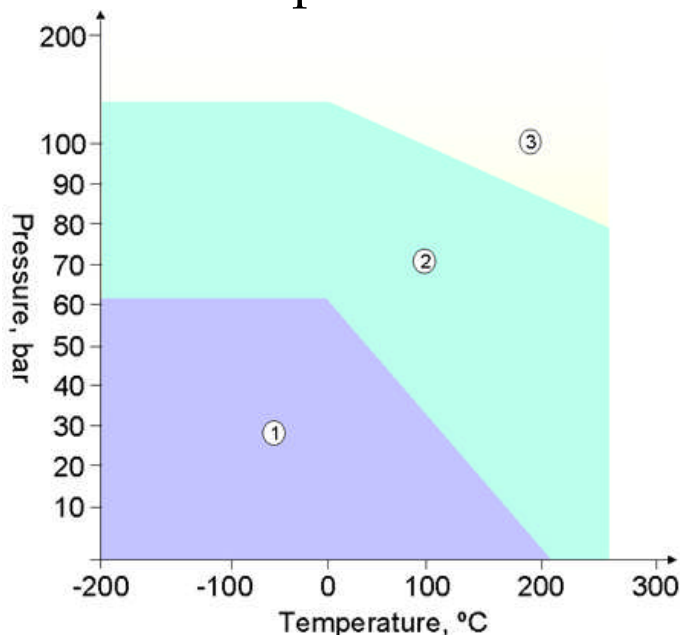
\* Can be welded to form gaskets larger than sheet size



aerospace  
sector  
certification  
scheme

BS EN 9100:2003, ISO 9001:2008  
Certificate no: FM 10571

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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		18%
Recovery ASTM F 36 A		40%
Stress relaxation DIN 52913	16h/150 <sup>0</sup> C	13MPa
Klinger cold/hot compression (25MPa)	Thickness decrease 23 <sup>0</sup> C	9%
	decrease at 250 <sup>0</sup> C	38%
Gas leakage according to DIN 3535/6		0.1ml/min
Thickness increase after fluid	H <sub>2</sub> SO <sub>4</sub> 100%:18h/23 <sup>0</sup> C	1%
Immersion ASTM F 146	HNO <sub>3</sub> 100%, 18h/23 <sup>0</sup> C	5%
	NaOH 33%, 72h/110 <sup>0</sup> C	2%
Density		1.7g/cm <sup>3</sup>

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