



# KLINGERtop-chem-2000

**Premium grade, heavy-duty PTFE gasket suitable for a wide range of applications within the chemical and petrochemical industries. The only PTFE based gasket material on the market to hold fire safe approval.**

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 at high temperatures and pressures
- Ideal for aggressive chemicals
- Easy to handle and cut
- Firesafe
- Creep Resistant

#### Tests and Certifications

- Firesafe API 6FA
- BAM Approval for use with oxygen 100 bar / 200°C
- KTW Approval C661/95/se
- DIN DVGW G96e022
- FDA Conformity
- TA Luft 97 06 9502 01
- Germanischer Lloyd 98 949 – 97 HH a)
- United States Coast Guard 16703 / 46-153
- Italiano Navale MAC/051882/GMI
- Veritas AS J.nr.:141-9703538

#### Availability

- Sheeting (m): 1.4 x 1.4\*
- Thickness (mm): 1.0, 1.5, 2.0, 3.0

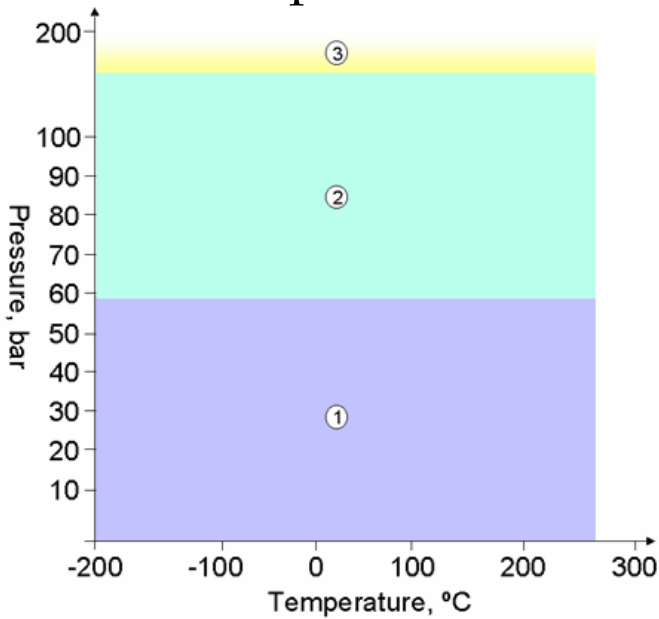
\* Can be welded to form gaskets larger than sheet size



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                         |                         | 2%                   |
| Recovery ASTM F 36 A                                |                         | 55%                  |
| Stress relaxation DIN 52913                         | 50MPa, 16h/300°C        | 35MPa                |
|   | 30MPa, 16h/150°C        | 30MPa                |
| Klinger cold/hot compression (50 MPa)               | Thickness decrease 23°C | 2%                   |
|   | decrease at 300°C       | 5%                   |
| Gas leakage according to DIN 3535/6                 |                         | <0.5ml/min           |
|   | H2SO4 100%:18h/23°C     | 0.5-1%               |
| Thickness increase after fluid Immersion ASTM F 146 | HNO3 100%, 18h/23°C     | 1-2%                 |
|   | NaOH 33%, 72h/110°C     | 5%                   |
| Density   |                         | 2.5g/cm <sup>3</sup> |

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