



KLINGER[®]top-chem 2006 – PTFE filled with barium sulfate, this pigment-free gasket material with excellent resistance to strong alkalis.

Produced from PTFE filled with barium sulfate, this pigment-free gasket material convinces with its excellent resistance to strong alkalis as well as with good mechanical properties at medium to low temperatures and loads. This gasket material is primarily used in the chemical industry.



Basis composition PTFE filled with barium sulfate.

| Color | White |
|--------------|--|
| Certificates | Oxygen-tested, DIN-DVGW, DNV GL approval, TA-Luft (Clean air), FDA conformity (components of KLINGER®topchem 2006 comply with the FDA requirements) |

| Sheet size | 1500 x 1500 mm |
|------------|--------------------------------|
| Thickness | 1.0 mm, 1.5 mm, 2.0 mm, 3.0 mm |
| Tolerance | s |
| Thickness | according to DIN 28091-1 |
| Length: | ± 50 mm |
| Width: | ± 50 mm |

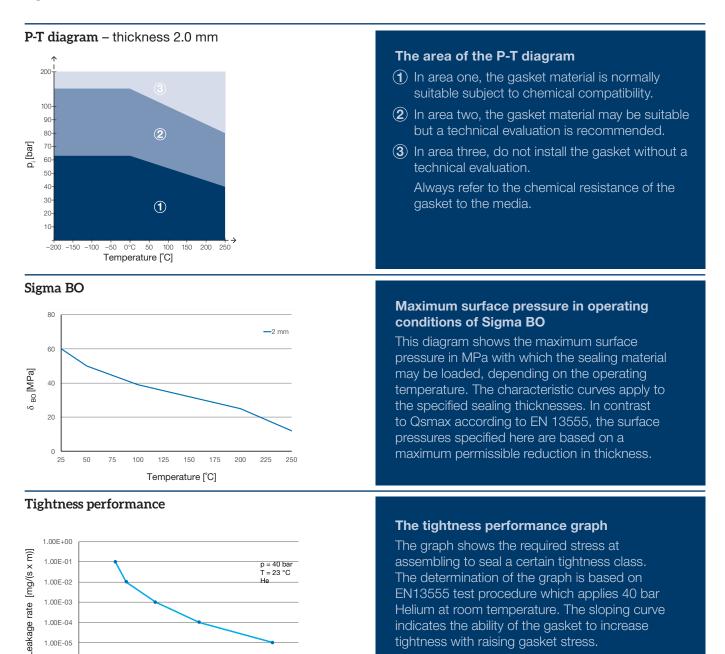
Industry

General industry / Chemical / Oil & Gas / Energy / Infrastructure / Pulp & Paper / Marine / Automotive / Food & Beverage / Pharma

TECHNICAL DATA – Typical values for a thickness of 2.0 mm

| Compressibility | ASTM F 36 M | % | 4 |
|------------------------------------|--|-------------------|-----------|
| Recovery | ASTM F 36 M | % | 40 |
| Stress relaxation DIN 52913 | 30 MPa, 16 h/150°C | MPa | 18 |
| KLINGER cold/hot compression | thickness decrease at 23°C | % | 12 |
| 50 MPa | thickness decrease at 260°C | % | 41 |
| Tightness | DIN 28090-2 | mg/(s x m) | 0.01 |
| Specific leakrate | VDI 2440 | mbar x l/(s x m) | 3.60E-06 |
| Thickness/weight increase | H ₂ SO ₄ , 100%: 18 h/23°C | % | - |
| | HNO ₃ , 100%: 18 h/23°C | % | 1/2 |
| | NaOH, 33%: 72 h/110°C | % | 1/1 |
| Density | | g/cm ³ | 3.0 |
| Average surface resistance | ρΟ | Ω | 1x10E13 |
| Average specific volume resistance | ρD | Ω cm | 1.2x10E13 |
| Average dielectric strength | Ed | kV/mm | 16.7 |
| Average power factor | 50 Hz | tan δ | 0.083 |
| Average dielectric coefficient | 50 Hz | εr | 4.2 |
| Thermal conductivity | λ | W/mK | 0.40 |
| ASME-Code sealing factors | | I | |
| for gasket thickness 2.0 mm | tightness class 0.1mg/s x m | MPa | y 12 |
| | | | m 3.1 |





Chemical resistance chart

1.00E-06

Simplified overview of the chemical resistance depending on the most important groups of raw materials:

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KLINGER®top-chem 2006 A: small or no attack B: weak till moderate attack C: strong attack Chlorinated Paraffinic Moto Motor Mineral Acid Base Aromates Alcohol Ketone Ester Water hydrocarbon (diluted) hydrocarbon fuel oil lubricants (diluted) fluids Α Α Α Α Α Α Α Α Α Α Α

For more information on chemical resistance please visit www.klinger.co.at.

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Surface pressure [MPa]

All information is based on years of experience in production and operation of sealing elements. However, in view of the wide variety of possible installation and operating conditions one cannot draw final conclusions in all application cases regarding the behaviour in gasket joint. The data may not, therefore, be used to support any warranty claims. This edition cancels all previous issues. Subject to change without notice.

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Certified acc. to DIN EN ISO 9001:2015 Subject to technical alterations. Status: April 2020 Rich. Klinger Dichtungstechnik GmbH & Co KG / Am Kanal 8-10 / A-2352 Gumpoldskirchen, Austria Tel +43 (0) 2252/62599-137 / Fax +43 (0) 2252/62599-296 / e-mail: marketing@klinger.co.at

www.klinger.co.at