KLINGER®top-chem 2006

Excellent chemical resistance in strong alkaline applications

KLINGER®top-chem 2006 offers an excellent resistance in strong alkaline applications and good mechanical properties at medium and low temperatures and loads. KLINGER®top-chem 2006 is suitable in a wide range of applications in the chemical industry. This gasket material is free of pigments and also meets FDA conformity.

Basis: PTFE filled gasket material with barium sulfate.

TYPICAL VALUES REFER TO 2.0 MM THICK MATERIAL UNLESS NOTED

Compressibility **ASTM F36 M**	4 %
Recovery **ASTM F36 M**	40 %
Stress relaxation **DIN 52913** 30 MPa, 16 h/150°C	 18 MPa
KLINGER Cold/Hot Compression Test 50 MPa Thickness Decrease 73°F (23°C) Thickness Decrease 500°F (260°C)	 12 % 41 %
Tightness **DIN 28090-2**	0.01 mg/s x m
Thickness/Weight Increase HNO_3, 100%, 18 h/23°C NaOH, 33%, 72 h/110°C	 1 / 2 % 1 / 1 %
Density	3.0 g/cm³
Average surface resistance **ρO**	1 x 10E13 Ω
Average specific volume resistance **ρD**	1.2 x 10E13 Ω cm
Average dielectric strength E_d	16.7 kV/mm
Average power factor 50 Hz	0.083 tan**δ**
Average dielectric coefficient 50 Hz	4.2 **εr**
Thermal conductivity **λ**	0.40 W/mK
Color	Off-white

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CERTIFICATES & APPROVALS

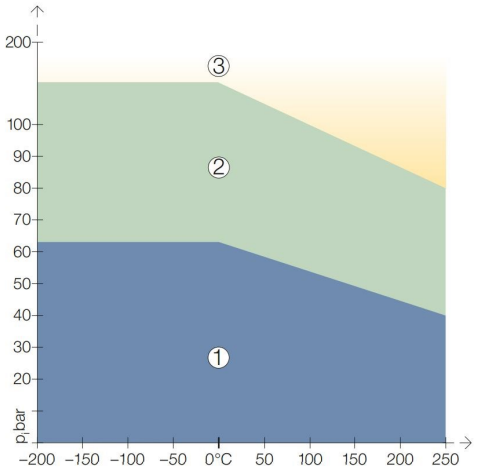
- BAM tested
- DIN-DVGW
- DNV GL
- TA-Luft (Clean air)
- FDA conformity (components comply with the FDA requirements)

KEY FEATURES & BENEFITS

- Mainly for use in alkaline
- Excellent chemical resistance
- Resistant to cold flow
- Consistent material composition
- Very good mechanical properties at medium temperatures

The pressure/temperature graphs shown are the most current method of determining the suitability of a gasket material in a known environment. However, chemical compatibility must also be considered.

pT diagram for thickness 2.0 mm:



In area ① the gasket material is suitable using common installation practices subject to chemical compatibility.

In area ② appropriate measures are necessary for installation of the gasket to ensure maximum performance. Please call or refer to KLINGERexpert for assistance.

In area ③ do not install gaskets in these applications without first referring to KLINGERexpert or contacting KLINGER's technical support service.

The ability of a gasket to make and maintain a seal depends not only on the style and quality of the gasket material, but also on medium being sealed, the flange design, the amount of pressure applied to the gasket by the bolts and how the gasket is assembled onto the flanges and tightened. These factors are beyond the manufacturer's control.

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