

KLINGER[®]top-chem-2003

- Ideal for low bolt applications or where flanges are delicate
- Excellent chemical resistance to acidic and alkaline attack
- Highly compressible
- FDA compatible
- Ideal for higher temperatures and pressures
- Holds shape for thermal cycles

See graphs for temperature & pressure limits



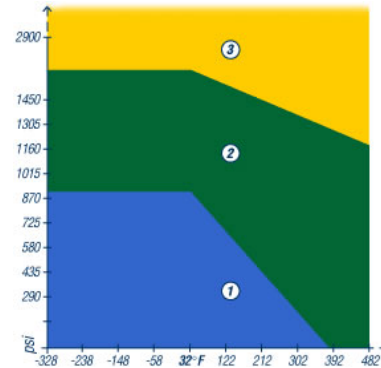
Ref. Thickness of Measured Values	2 mm
Density	1.7 g/cm ³
Compressibility ASTM F36	16%
Recovery ASTM F36	35%
Stress Relaxation	
DIN 52913, 16h 4,350 psi, 300°F	13 MPa
Klinger Hot Compression Test	
75°F/3,625 psi	9%
480°F/3,625 psi	38%
Sealability	
DIN 3535/6	0.1 ml/min
DIN 28090-2	0.01 mg/sm

Thickness/Weight Increase	
H ₂ SO ₄ , 100%: 18h/75°F	1-1%
HNO ₃ , 100%: 18h/75°F	0-5%
NaOH, 33%: 72h/230°F	1-5%

Permits/Certifications

- KTW proposal
- DIN-DVGW permit
- FDA conformity
- TA-Luft certification
- Germanischer Lloyd

Pressure & Temperature Graphs



The pressure/temperature graphs shown are the most current method of determining the suitability of a gasket material in a known environment. Use the pressure and temperature graphs to select the most suitable material for your application.

1. In area one, the gasket material is suitable using common installation practices subject to chemical compatibility.
2. In area two, appropriate measures are necessary for installation of the gasket to ensure maximum performance. Please call or refer to the KLINGER[®] expert software system for assistance.
3. In area three, do not install gaskets in these applications without first referring to the KLINGER[®] expert software system or contacting Thermoseal Inc.'s technical support service

These graphs were developed from testing Klinger materials. Do not use them for competitors' materials since non-asbestos gasketing materials do not have service equivalents.

Use: The limitations of use, as shown in the graphs, are for guidance only, and are based on 1/16" thick material. The limitations of use decrease significantly as gasket thickness increases. Do not use a thicker gasket material or "double gaskets" to solve a gasket problem without first consulting the manufacturer. The ability of a gasket material to make and maintain a seal depends not only on the 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 into the flanges and tightened.



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