

# KLINGER® Thermica



*KLINGER® Mica based calendared sheet material*

# SEALING TECHNOLOGIES

## Typical applications

Suitable for a wide range of applications including oils, fuels, caustics, steam, hydrocarbons.

Peak temperature	400° C
Continuous temperature	300° C
Continuous temp. with steam	250° C
Max. pressure	40 bar

## Dimensions of the standard sheets

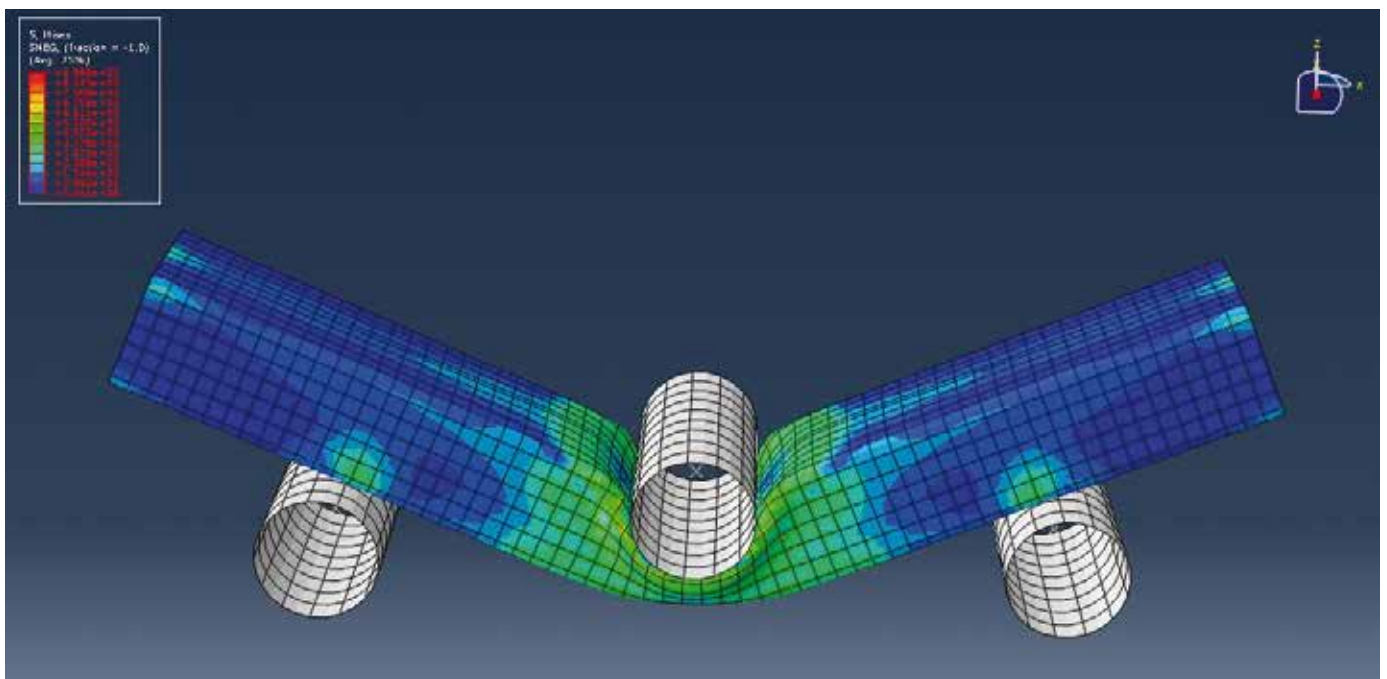
Sizes: 2,000 x 1,500 mm.

Standard thicknesses: 0.8 mm, 1.0 mm, 2.0 mm and 3.0 mm



## Typical values for 2.0 mm thickness

Compressibility ASTM F 36 J		%	12
Recovery ASTM F 36 J	min	%	55
KLINGER® cold/hot compression 50 MPa	thickness decrease at 23°C	%	17
	thickness decrease at 300°C	%	13
	thickness decrease at 400°C	%	18
Stress relaxation DIN 52913	50 MPa / 300°C	MPa	28
Stress relaxation BS 7531	40 MPa / 300°C; 1.5 mm	MPa	27
Tightness according to BS 7531		ml / min.	< 1.0
Thickness increase ASTM F 146	oil IRM 903: 5h / 150°C	%	8



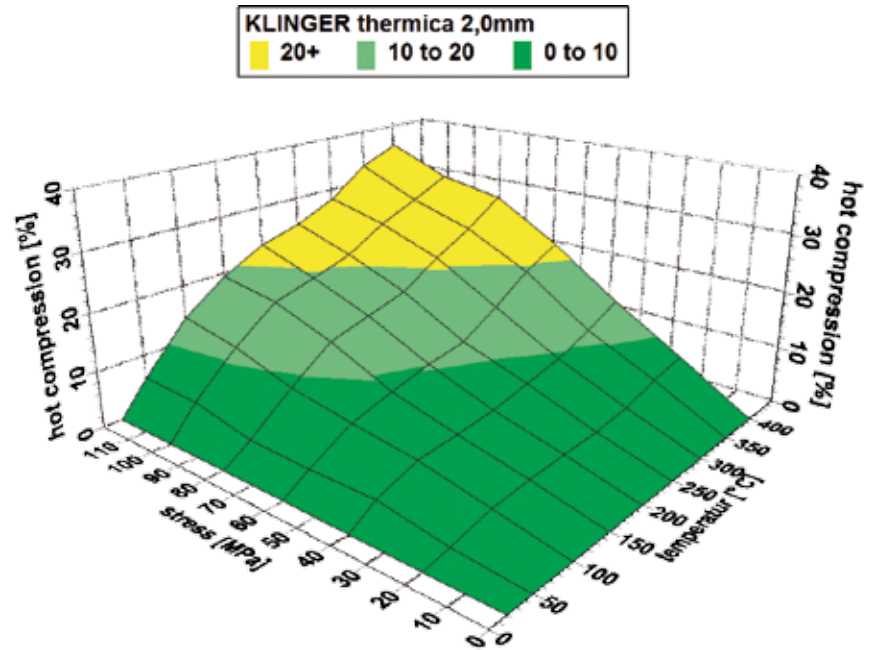
# High Temperature Materials

## Load bearing

### ↘ Selecting gaskets with pT diagrams

The KLINGER® pT diagram provides guidelines for determining the suitability of a particular gasket material for a specific application based on the operating temperature and pressure only.

Additional stresses such as fluctuating load may significantly affect the suitability of a gasket in the application and must be considered separately. Always refer to the chemical resistance of the gasket to the fluid.



## pT Rating

### ↘ Areas of Application

- ① In area one, the gasket material is normally suitable subject to chemical compatibility.
- ② In area two, the gasket materials may be suitable but a technical evaluation is recommended.
- ③ In area three, do not install the gasket without a technical evaluation.

