

KLINGER®top-graph 2000

KLINGER®top-graph 2000 combines the advantages of fibre-reinforced gaskets with the key features of flexible graphite.

Graphite and synthetic fibres, bonded with NBR. Thanks to its high degree of inherent stability this material offers reliability in handling. Due to the high load bearing capacity and the low embrittlement, KLINGER®top-graph 2000 is ideal for the use with steam and other demanding applications.



Key features:

- » Utilization of graphite as filler
- » High level of load bearing capacity

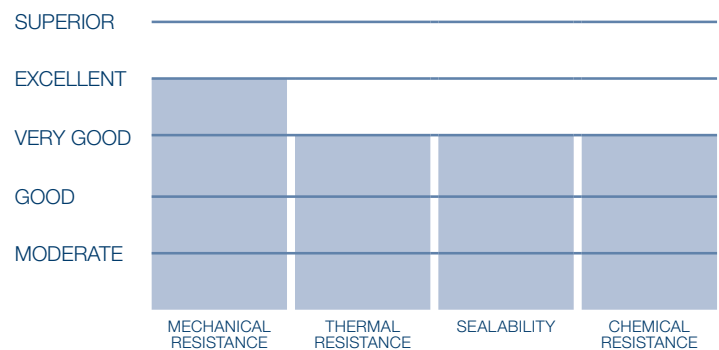
Benefits:

- » Improved flexibility
- » Resists high surface pressure also at elevated temperatures

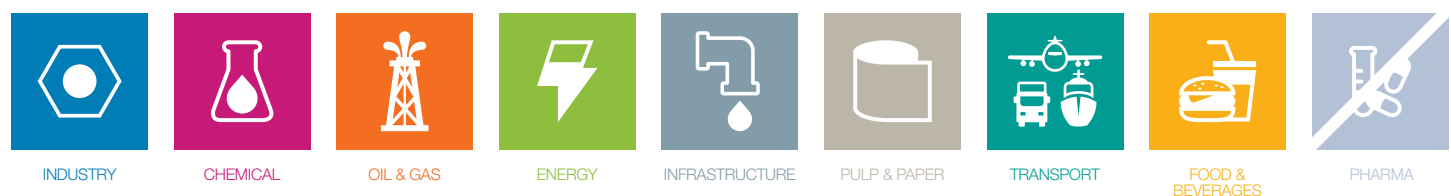
Certificates and approvals:

- » BAM-tested
- » DIN-DVGW
- » Elastomer-Guideline
- » German Lloyd
- » TA-Luft (Clean air)

Properties: referring to KLINGERSIL® product range



Industries:



Typical technical data for thickness 2.0 mm:

Compressibility ASTM F 36 J		%	10
Recovery ASTM F 36 J		%	60
Stress relaxation DIN 52913	50 MPa, 16 h/300°C	MPa	30
Stress relaxation BS 7531	40 MPa, 16 h/300°C	MPa	27
KLINGER cold/hot compression	thickness decrease at 23°C	%	10
50 MPa	thickness decrease at 300°C	%	10
Tightness	DIN 28090-2	mg/s x m	0.05
Specific leakrate λ	VDI 2440	mbar x l/s x m	1.84E-05
Thickness increase after fluid	oil IRM 903: 5 h/150°C	%	5
immersion ASTM F 146	fuel B: 5 h/23°C	%	7
Density		g/cm ³	1.8
Average specific volume resistance	ρD	Ω cm	6.7x10E3
Thermal conductivity	λ	W/mK	0.69
Classification acc. to BS 7531:2006	Grade AX		
ASME-Code sealing factors			
for gasket thickness 1.0 mm	tightness class 0.1 mg/s x m	MPa	y 20 m 2.4
for gasket thickness 2.0 mm	tightness class 0.1 mg/s x m	MPa	y 20 m 4.2
for gasket thickness 3.0 mm	tightness class 0.1 mg/s x m	MPa	y 20 m 6.7

Dimensions of the standard sheets:

Sizes:

1000 x 1500 mm, 2000 x 1500 mm

Thicknesses:

0.5 mm, 1.0 mm, 1.5 mm, 2.0 mm, 3.0 mm

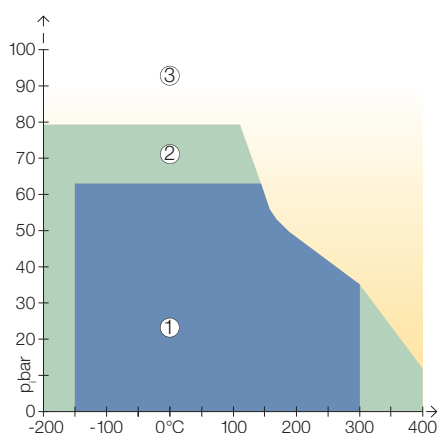
Tolerances:

Thickness acc. DIN 28091-1

Length \pm 50 mm, width \pm 50 mm

Other thicknesses, sizes and tolerances on request.

pT diagram for thickness 2.0 mm:



①

In area one, the gasket material is normally suitable subject to chemical compatibility.

②

In area two, the gasket material may be suitable but a technical evaluation is recommended.

③

In area three, do not install the gasket without a technical evaluation.

Always refer to the chemical resistance of the gasket to the media.

Certified acc. to DIN EN ISO 9001:2008 Subject to technical alterations. Status: March 2016

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