

KLINGER® Compensil

KLINGER® Compensil delivers and maintains excellent sealing performance in all kind of applications. It is used for liquids and gaseous media at lower pressures and temperatures and low bolt loads. Additionally it provides good resistance against oils, hydrocarbons, refrigerants and other chemicals.

Unique combination of mineral fibres bonded with NBR. KLINGER® Compensil is ideal for use in applications where only low bolt loads are possible. It compensates inadequate bolting procedure and has best potential to seal even under irregular load allocation.



Key features:

- » High compressibility
- » Excellent spring back behavior
- » Resistant to creep and cold flow
- » Dimensionally stable
- » Consistent material composition

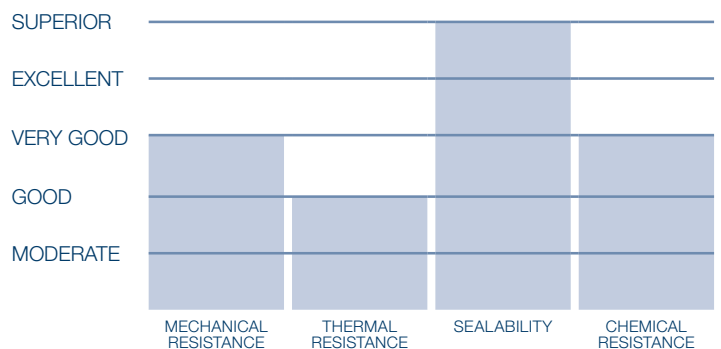
Benefits:

- » Provides superior adaptability to any sealing surface
- » Seals irregular flanges
- » Conforms easily
- » Superior sealing at low stress
- » Increased resistance against refrigerants

Certificates and approvals:

- » DIN-DVGW: in progress
- » TA-Luft (Clean air): in progress

Properties: referring to KLINGERSIL® product range



Industries:



Typical technical data for thickness 2.0 mm:

Compressibility ASTM F 36 J		%	22
Recovery ASTM F 36 J		%	45
KLINGER cold/hot compression 50 MPa	thickness decrease at 23°C	%	18
	thickness decrease at 200°C	%	22
Tightness	DIN 28090-2	mg/s x m	0.01
Thickness increase after fluid immersion ASTM F 146	oil IRM 903: 5 h/150°C	%	10
	fuel B: 5 h/23°C	%	15
Density		g/cm ³	1.5
ASME-Code sealing factors			
for gasket thickness 1.0 mm	tightness class 0.1 mg/s x m	MPa	y 10 m 1.0
for gasket thickness 2.0 mm	tightness class 0.1 mg/s x m	MPa	y 10 m 2.9
for gasket thickness 3.0 mm	tightness class 0.1 mg/s x m	MPa	y 10 m 3.3

Dimensions of the standard sheets:

Sizes:

2000 x 1500 mm

Thicknesses:

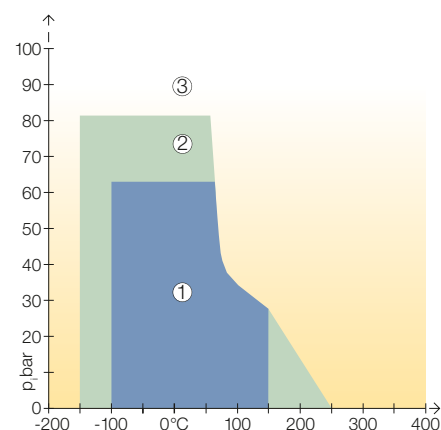
0.8 mm, 1.0 mm, 1.5 mm, 2.0 mm, 3.0 mm

Tolerances:

Thickness acc. DIN 28091-1
 Length ± 50 mm, width ± 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.

