

KLINGERSIL® C-4409

KLINGERSIL® C-4409 offers more safety at high thermal and mechanical stress. Due to the expanded metal, this special high-pressure gasket is suitable for high loads.

Synthetic fibres bonded with NBR.
Chemical resistance to oils, water, steam, hydrocarbons as well as to liquid and gaseous chemicals.



Key features:

- » Expanded metal reinforcement
- » Improved stress relaxation

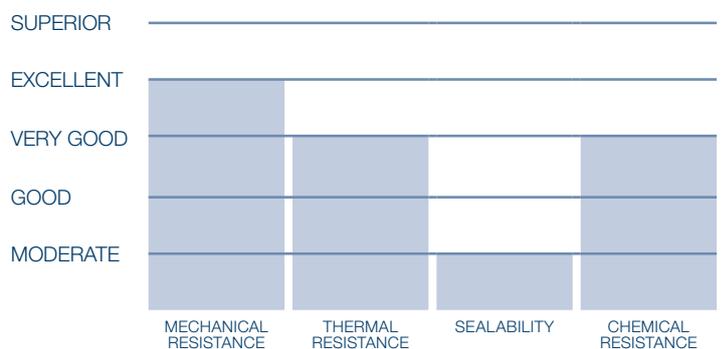
Benefits:

- » Suitable for higher pressures
- » Higher resistance against blow-outs
- » More safety at high internal pressures

Certificates and approvals:

- » German Lloyd
- » TA-Luft (Clean air)

Properties: referring to KLINGERSIL® product range



Industries:



Typical technical data for thickness 1.5 mm:

Compressibility ASTM F 36 J		%	7
Recovery ASTM F 36 J		%	50
Stress relaxation DIN 52913	50 MPa, 16 h/300°C	MPa	35
Stress relaxation BS 7531	40 MPa, 16 h/300°C	MPa	32
KLINGER cold/hot compression	thickness decrease at 23°C	%	10
50 MPa	thickness decrease at 300°C	%	10
Specific leakrate λ	VDI 2440	mbar x l/s x m	5.2E-05
Thickness increase after fluid immersion ASTM F 146	oil IRM 903: 5 h/150°C	%	5
	fuel B: 5 h/23°C	%	10
Density		g/cm ³	2.0
Classification acc. to BS 7531:2006	Grade Y		
ASME-Code sealing factors			
for gasket thickness 1.0 mm	tightness class 0.1 mg/s x m	MPa	y 30 m 3.0
for gasket thickness 2.0 mm	tightness class 0.1 mg/s x m	MPa	y 30 m 3.2
for gasket thickness 3.0 mm	tightness class 0.1 mg/s x m	MPa	y 30 m 3.8

Dimensions of the standard sheets:

Sizes KLINGERSIL® C-4409:

1000 x 1500 mm, 2000 x 1500 mm

Sizes KLINGERSIL® C-4409 L:

1000 x 1230 mm, 2000 x 1230 mm

Thicknesses:

1.0 mm, 1.5 mm

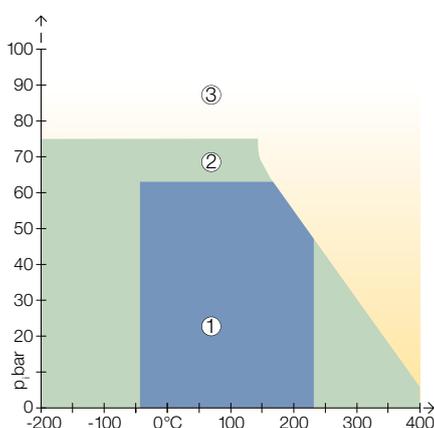
Tolerances:

Thickness acc. DIN 28091-1

Length \pm 50 mm, width \pm 50 mm

Other thicknesses, sizes and tolerances on request.

pT diagram for thickness 1.5 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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