KLINGERSIL® C-4500

Technical values

Premium quality high-pressure gasket especially suitable for use with high temperature alkaline media and superheated steam. A superior performance product designed for use in the chemical industry.

Basis

Carbon fibres and
special heat resistant additives
bonded with NBR.

Dimensions

of the standard sheets
Sizes:
1,000 x 1,500 mm,
2,000 x 1,500 mm.
Thicknesses:
0.5 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.

Surfaces

KLINGERSIL® gasket materials are generally furnished with surfaces of low adhesion.
On request, graphite facings and other surface finishes on one or both sides are also available.

Typical values for thickness 2.0 mm				
Compressibility ASTM F 36 J			%	11
Recovery ASTM F 36 J			%	60
Stress relaxation DIN 52913	50 MPa, 16 h/175°C		MPa	38
	50 MPa, 16 h/300°C		MPa	30
Stress relaxation BS 7531	40 MPa, 16 h/300°C		MPa	30
KLINGER cold/hot compression	thickness decrease at 23°C		%	10
50 MPa	thickness decrease at 300°C		%	15
Tightness	DIN 28090-2		mg/s x m	0.05
Specific leakrate λ	VDI 2440		mbar x l/s x m	4,94E-06
Thickness increase after fluid	oil IRM 903: 5 h/150°C		%	3
immersion ASTM F 146	fuel B: 5 h/23°C		%	5
Density			g/cm³	1.6
Average surface resistance	ρ_D		Ω	8.0x10E04
Thermal conductivity	λ		W/mK	0.43
ASME-Code sealing factors	Leakage DIN 28090			
for gasket thickness 1.0 mm	tightness class 0.1 mg/s x m	MPa	y	20
			m	1.0
for gasket thickness 2.0 mm	tightness class 0.1 mg/s x m	MPa	y	20
			m	1.6
for gasket thickness 3.0 mm	tightness class 0.1 mg/s x m	MPa	y	20
			m	2.0
Classification acc. to BS 7531:2006	Grade AX			

Function and durability

The performance and service life of KLINGER gaskets depend in large measure on proper storage and fitting, factors beyond the manufactor's control. We can, however, vouch for the excellent quality of our products.

With this in mind, please also observe our installation instructions.

Tests and approvals

BAM-tested
DIN-DVGW
DIN-DVGW W 270
Elastomer-Guideline
ÖVGW
German Lloyd
TA-Luft (Clean air)
Fire-Safe acc. to DIN EN ISO 10497

Certified according to
DIN EN ISO 9001:2008

Subject to technical alterations.
Status: June 2017