

KLINGERSIL® C-4400

KLINGERSIL® C-4400 is a universal material for safe and reliable sealing. It consists of a unique matrix, which offers an excellent combination of different properties.

Aramid fibres bonded with NBR.

Resistant to oils, water, steam, gases, salt solutions, fuels, alcohols, moderate organic and inorganic acids, hydrocarbons, lubricants and refrigerants.



Key features:

- » Universal high pressure gasket material
- » Dimensionally stable
- » Consistent material composition

Benefits:

- » Excellent price/performance ratio
- » Suitable for many different media
- » Very good resistance to refrigerants

Certificates and approvals:

- » BAM-tested
- » DIN-DVGW
- » DIN-DVGW W 270
- » DVGW VP 401
- » Elastomer-Guideline
- » ÖVGW
- » German Lloyd
- » TA-Luft (Clean air)
- » Fire-Safe acc. DIN EN ISO 10497

Properties: referring to KLINGERSIL® product range

SUPERIOR				
EXCELLENT				
VERY GOOD				
GOOD				
MODERATE				
	MECHANICAL RESISTANCE	THERMAL RESISTANCE	SEALABILITY	CHEMICAL RESISTANCE

Industries:



Typical technical data for thickness 2.0 mm:

Compressibility ASTM F 36 J		%	11
Recovery ASTM F 36 J		%	55
Stress relaxation DIN 52913	50 MPa, 16 h/175°C	MPa	37
	50 MPa, 16 h/300°C	MPa	25
Stress relaxation BS 7531	40 MPa, 16 h/300°C	MPa	25
KLINGER cold/hot compression	thickness decrease at 23°C	%	10
50 MPa	thickness decrease at 300°C	%	20
Tightness	DIN 28090-2	mg/s x m	0.02
Specific leakrate λ	VDI 2440	mbar x l/s x m	1.64E-08
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/cm ³	1.6
Average surface resistance	ρ_O	Ω	1.4x10E12
Average specific volume resistance	ρ_D	Ω cm	1.2x10E12
Average dielectric strength	E_d	kV/mm	21.6
Average power factor	50 Hz	$\tan \delta$	0.131
Average dielectric coefficient	50 Hz	ϵ_r	9.2
Thermal conductivity	λ	W/mK	0.42
Classification acc. to BS 7531:2006	Grade AY		
ASME-Code sealing factors			
for gasket thickness 1.0 mm	tightness class 0.1mg/s x m	MPa	y 15 m 1.2
for gasket thickness 2.0 mm	tightness class 0.1mg/s x m	MPa	y 15 m 1.6
for gasket thickness 3.0 mm	tightness class 0.1mg/s x m	MPa	y 15 m 4.0

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

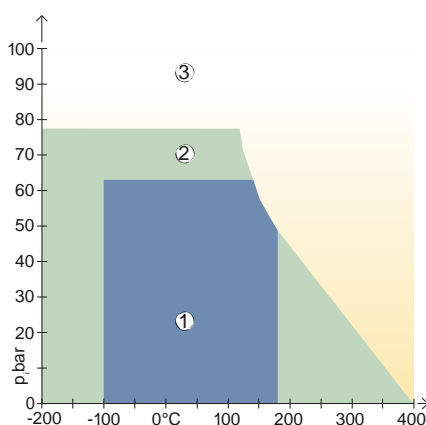
Tolerances:

Thickness acc. DIN 28091-1

Length ± 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.

Certified acc. to DIN EN ISO 9001:2008. Subject to technical alterations. Status: June 2017