

# 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

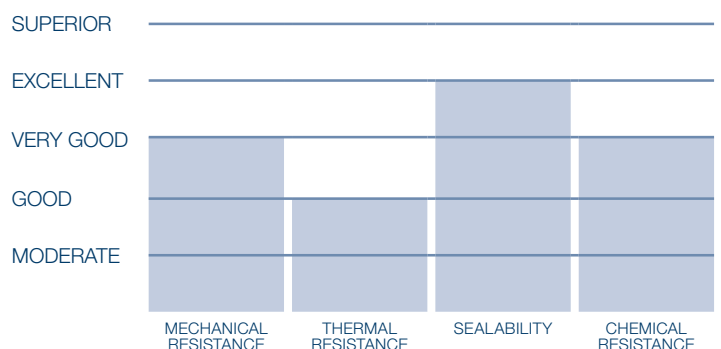
## Benefits:

- » 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 Reg.No. G 1.912
- » German Lloyd
- » TA-Luft (Clean air)
- » Fire-Safe acc. DIN EN ISO 10497

## Properties: referring to KLINGERSIL® product range



## Industries:



INDUSTRY

CHEMICAL

OIL &amp; GAS

ENERGY

INFRASTRUCTURE

PULP &amp; PAPER

TRANSPORT

FOOD &amp; BEVERAGES

PHARMA

## 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 $\lambda$	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 <sup>3</sup>	1.6
Average surface resistance	$\rho_0$	$\Omega$	1.4x10E12
Average specific volume resistance	$\rho_D$	$\Omega$ 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	$\epsilon_r$	9.2
Thermal conductivity	$\lambda$	W/mK	0.42
Classification acc. to BS 7531:2006	Grade AY		
<b>ASME-Code sealing factors</b>			
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:

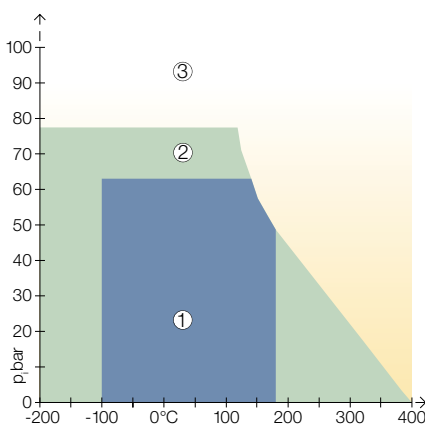
0.5 mm, 1.0 mm, 1.5 mm, 2.0 mm, 3.0 mm

### Tolerances:

Thickness acc. DIN 28091-1  
Length  $\pm 50$  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.