

# KLINGERSIL® C-4300

KLINGERSIL® C-4300 is a universal high-pressure gasket and offers more safety for a wide range of suitable applications.

Aramid fibres bonded with NBR.  
Resistant to hot water, steam, oils, hydrocarbons and many other chemicals.



## Key features:

- » General purpose gasket material
- » Dimensionally stable
- » Consistent material composition

## Benefits:

- » Excellent price/performance ratio
- » Suitable for many different media

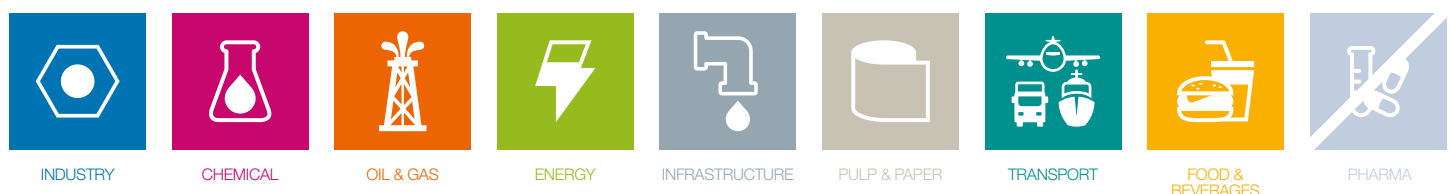
## Certificates and approvals:

- » DIN-DVGW
- » DIN-DVGW W 270
- » Elastomer-Guideline
- » German Lloyd
- » SVGW approval

## 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		%	14
Recovery ASTM F 36 J		%	50
Stress relaxation DIN 52913	50 MPa, 16 h/175°C	MPa	32
	50 MPa, 16 h/300°C	MPa	20
Stress relaxation BS 7531	40 MPa, 16 h/300°C	MPa	23
KLINGER cold/hot compression	thickness decrease at 23°C	%	10
50 MPa	thickness decrease at 300°C	%	22
Tightness	DIN 28090-2	mg/s x m	0.03
Thickness increase after fluid	oil IRM 903: 5 h/150°C	%	5
immersion ASTM F 146	fuel B: 5 h/23°C	%	10
Density		g/cm <sup>3</sup>	1.6
Average surface resistance	$\rho_0$	$\Omega$	2.2x10E12
Average specific volume resistance	$\rho_D$	$\Omega$ cm	1.2x10E12
Average dielectric strength	$E_d$	kV/mm	10
Average power factor	50 Hz	$\tan \delta$	0.082
Average dielectric coefficient	50 Hz	$\epsilon_r$	7.4
Thermal conductivity	$\lambda$	W/mK	0.39
Classification acc. to BS 7531:2006	Grade Y		
<b>ASME-Code sealing factors</b>			
for gasket thickness 1.0 mm	tightness class 0.1 mg/s x m	MPa	y 15 m 1.3
for gasket thickness 2.0 mm	tightness class 0.1 mg/s x m	MPa	y 15 m 3.0
for gasket thickness 3.0 mm	tightness class 0.1 mg/s x m	MPa	y 15 m 4.0

## Dimensions of the standard sheets:

### Sizes:

1000 x 1500 mm, 2000 x 1500 mm

### Thicknesses:

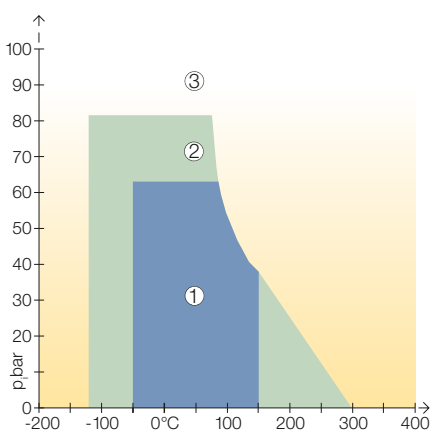
0.5 mm, 1.0 mm, 1.5 mm, 2.0 mm, 3.0 mm

### 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.

