

# KLINGERSIL® C-4430

**KLINGERSIL® C-4430 offers outstanding stress retention and resistance to hot water and steam.**

Optimum combination of synthetic fibres, bonded with NBR. Resistant to water and steam at higher temperatures as well as to oils, gases, salt solutions, fuels, alcohols, moderate organic and inorganic acids, hydrocarbons, lubricants and refrigerants.



## Key features:

- » Optimum combination of synthetic and glass fibres
- » Outstanding stress relaxation
- » Dimensionally stable

## Benefits:

- » Suitable for high temperature steam and water
- » Better resistance against hydrocarbons
- » Suitable for many different media

## Certificates and approvals:

- » BAM-tested
- » DIN-DVGW
- » DIN-DVGW W 270
- » DVGW VP 401
- » Elastomer-Guideline
- » WRAS approval
- » German Lloyd
- » TA-Luft (Clean air)
- » Fire-Safe acc. to DIN EN ISO 10497
- » Fire-Safe acc. to ISO 19921

## Properties: referring to KLINGERSIL® product range

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

## Industries:



INDUSTRY



CHEMICAL



OIL & GAS



ENERGY



INFRASTRUCTURE



PULP & PAPER



TRANSPORT



FOOD & BEVERAGES



PHARMA

## Typical technical data for thickness 2.0 mm:

Compressibility ASTM F 36 J		%	9
Recovery ASTM F 36 J		%	55
Stress relaxation DIN 52913	50 MPa, 16 h/175°C	MPa	39
	50 MPa, 16 h/300°C	MPa	35
Stress relaxation BS 7531	40 MPa, 16 h/300°C	MPa	31
KLINGER cold/hot compression 50 MPa	thickness decrease at 23°C	%	8
	thickness decrease at 300°C	%	11
Tightness	DIN 28090-2	mg/s x m	0.05
Specific leakrate $\lambda$	VDI 2440	mbar x l/s x m	2.13E-05
Thickness increase after fluid immersion ASTM F 146	oil IRM 903: 5 h/150°C	%	3
	fuel B: 5 h/23°C	%	5
Density		g/cm <sup>3</sup>	1.8
Average surface resistance	$\rho O$	$\Omega$	4.1x10E13
Average specific volume resistance	$\rho D$	$\Omega$ cm	4.5x10E12
Average dielectric strength	$E_d$	kV/mm	21.3
Average power factor	50 Hz	$\tan \delta$	0.03
Average dielectric coefficient	50 Hz	$\epsilon_r$	6.7
Thermal conductivity	$\lambda$	W/mK	0.38
Classification acc. to BS 7531:2006	Grade AX		
<b>ASME-Code sealing factors</b>			
for gasket thickness 1.0 mm	tightness class 0.1 mg/s x m	MPa	y 20 m 1.1
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 2.2

## Dimensions of the standard sheets:

### Sizes:

1000 x 1500 mm, 2000 x 1500 mm

### Thicknesses:

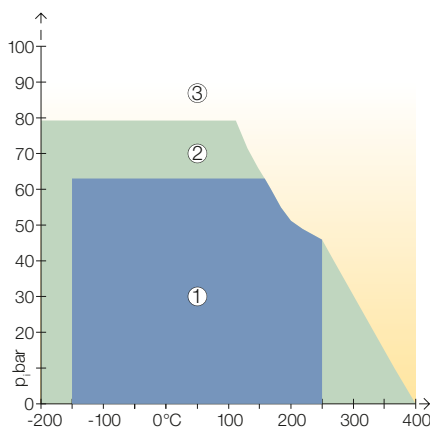
0.5 mm, 1.0 mm, 1.5 mm, 2.0 mm, 3.0 mm

### 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.

