

# KLINGERSIL® C-4430

## Technical values

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.

### ■ Basis

Optimum combination of synthetic fibres 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.

### ■ Function and durability

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

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

### Typical values 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 λ	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	ρ <sub>O</sub>	Ω	4.1x10E13
Average specific volume resistance	ρ <sub>D</sub>	Ω cm	4.5x10E12
Average dielectric strength	E <sub>d</sub>	kV/mm	21.3
Average power factor	50 Hz	tan δ	0.03
Average dielectric coefficient	50 Hz	ε <sub>r</sub>	6.7
Thermal conductivity	λ	W/mK	0.38
<b>ASME-Code sealing factors Leakage DIN 28090</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

Classification acc. to BS 7531:2006 Grade AX

### ■ Tests 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  
 AS/NZS 4020 –Potable Water  
 AGA 4623-2008 Class III ,2 MPa - Gas

Certified according to  
 DIN EN ISO 9001:2008

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Subject to technical alterations.  
 Status: June 2017