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

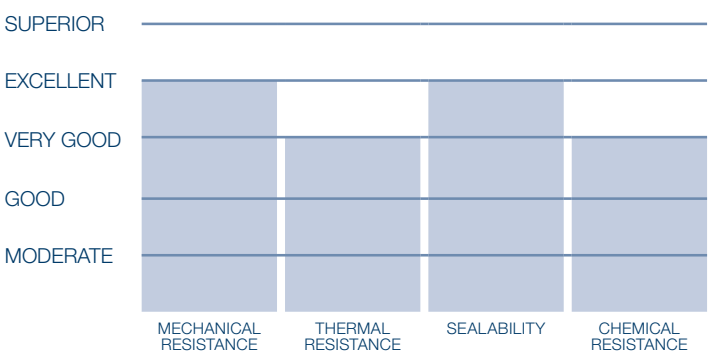
Benefits:

» 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



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	thickness decrease at 23°C	%	8
50 MPa	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	oil IRM 903: 5 h/150°C	%	3
immersion ASTM F 146	fuel B: 5 h/23°C	%	5
Density		g/cm³	1.8
Average surface resistance	ρO	Ω	4.1x10E13
Average specific volume resistance	ρD	Ω cm	4.5x10E12
Average dielectric strength	E_d	kV/mm	21.3
Average power factor	50 Hz	tan δ	0.03
Average dielectric coefficient	50 Hz	εr	6.7
Thermal conductivity	λ	W/mK	0.38
Classification acc. to BS 7531:2006	Grade AX		
ASME-Code sealing factors			
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:

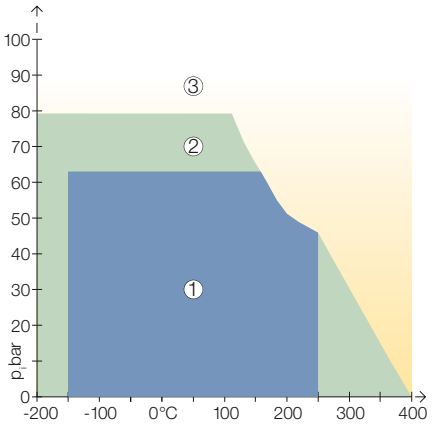
0.5 mm, 1.0 mm, 1.5 mm, 2.0 mm, 3.0 mm

Tolerances:

Thickness acc. DIN 28091-1
Length ± 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: March 2016

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