

Gasket-KLINGERSIL[®] C-4430plus MXT-4430000000

KLINGERSIL[®] C-4430 plus is a premium-quality, high-pressure gasket with outstanding stress relaxation and outstanding resistance to hot water and steam.

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



Key features:

- » Utilization of KLINGER[®] Quantum production technology
- » Optimum combination of synthetic and glass fibres
- » Outstanding stress relaxation

Benefits:

- » More safety
- » Better lifetime
- » Better high temperature tightness
- » Improved thermal stability

Certificates and approvals:

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

Properties: referring to KLINGERSIL[®] product range

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

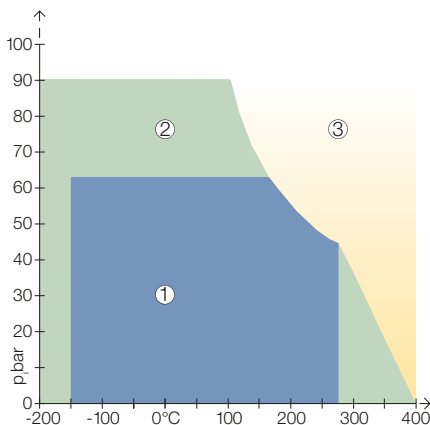
Industries:



Typical technical data for thickness 2.0 mm:

Compressibility ASTM F 36 J		%	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
	thickness decrease at 400°C	%	14
Tightness	DIN 28090-2	mg/s x m	0.05
Specific leakrate λ	VDI 2440	mbar x l/s x m	2.9E-06
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 ³	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	ϵ_r	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

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.