



KLINGERSIL[®] C-4430plus – premium gasket material providing industry-leading stress relaxation and outstanding chemical resistance.

Characterized by synthetic fibers bonded with NBR, this premium gasket material provides industry-leading stress relaxation and outstanding resistance to hot water and steam at higher temperatures. Operators also value it for its tried and proven resistance to oils, hydrocarbons, gases, salt solutions, fuels, alcohols, lubricants, refrigerants as well as to moderate organic and inorganic acids.

Basis composition	Optimum combination of synthetic fibers bonded with NBR.			
Color	Red / White			
Certificates	Oxygen-tested, DIN-DVGW, DIN 16421 (W 270), Elastomer-Guideline, WRAS approval, TA-Luft (Clean air), Fire-Safe acc. to DIN EN ISO 10497			



Sheet size	1000 x 1500 mm, 2000 x 1500 mm
Thickness	0.5 mm, 1.0 mm, 1.5 mm, 2.0 mm, 3.0 mm
Tolerances	
Thickness acc	cording to DIN 28091-1
Length:	± 50 mm
Longui	

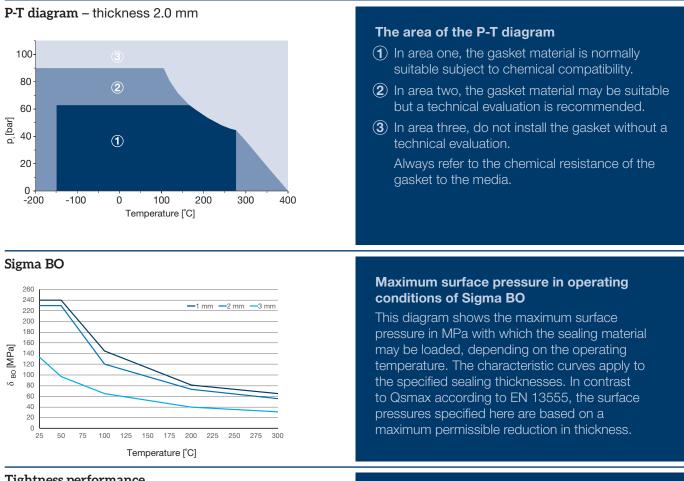
Industry

General industry / Chemical / Oil & Gas / Energy / Infrastructure / Pulp & Paper / Marine / Automotive / Food & Beverage

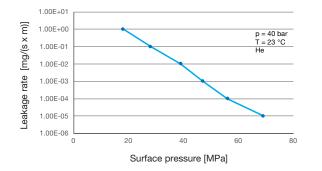
TECHNICAL DATA – Typical values for a thickness of 2.0 mm

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	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	Οq	Ω	4.1x10E13
Average specific volume resistance	ρD	Ω cm	4.5x10E12
Average dielectric strength	Ed	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 2.0 mm	tightness class 0.1mg/s x m	MPa	y 20
			m 1.6





Tightness performance



The tightness performance graph

The graph shows the required stress at assembling to seal a certain tightness class. The determination of the graph is based on EN13555 test procedure which applies 40 bar Helium at room temperature. The sloping curve indicates the ability of the gasket to increase tightness with raising gasket stress.

Chemical resistance chart

Simplified overview of the chemical resistance depending on the most important groups of raw materials:

KLINGERSIL® C-4430plus

Paraffinic hydrocarbon	Motor fuel	Aromates	Chlorinated hydrocarbon fluids	Motor oil	Mineral lubricants	Alcohol	Ketone	Ester	Water	Acid (diluted)	Base (diluted)
Α	В	С	С	Α	В	Α	С	С	Α	Α	Α

A: small or no attack

For more information on chemical resistance please visit www.klinger.co.at.

All information is based on years of experience in production and operation of sealing elements. However, in view of the wide variety of possible installation and operating conditions one cannot draw final conclusions in all application cases regarding the behaviour in gasket joint. The data may not, therefore, be used to support any warranty claims. This edition cancels all previous issues. Subject to change without notice.



C: strong attack

Certified acc. to DIN EN ISO 9001:2015 Subject to technical alterations. Status: December 2024 Rich. Klinger Dichtungstechnik GmbH & Co KG / Am Kanal 8-10 / A-2352 Gumpoldskirchen, Austria Tel +43 (0) 2252/62599-137 / Fax +43 (0) 2252/62599-296 / e-mail: marketing@klinger.co.at

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B: weak till moderate attack