



KLINGERSIL[®] C-4400 – leading soft gasket material for safe and reliable sealing.

Consisting of aramid fibers bonded with NBR, this universal gasket material is a synonym for safe and reliable sealing. Its unique matrix makes it resistant to oils, water, steam, gases, salt solutions, fuels, alcohols, moderate organic and inorganic acids, hydrocarbons and lubricants as well as refrigerants.



Basis composition Aramid fibers bonded with NBR.
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Color	Green
Certificates	Oxygen-tested, DIN-DVGW, DIN-DVGW W 270, DVGW VP 401, Elastomer-Guideline, ÖVGW, TA-Luft (Clean air), DNV GL approval, 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					
Tolerances					
	according to DIN 28091-1				

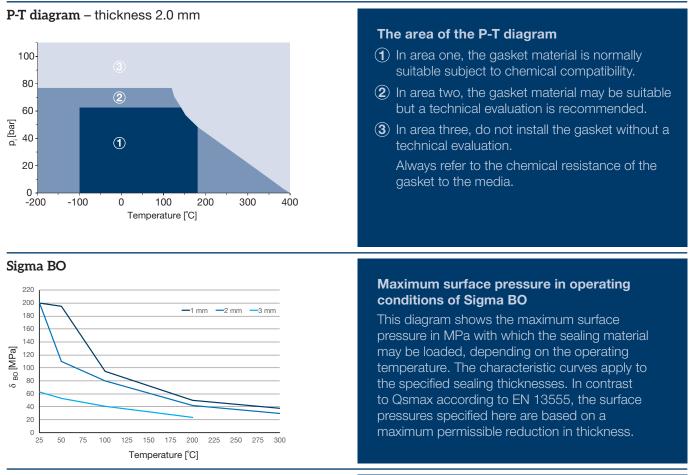
Industry

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

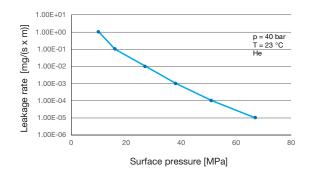
TECHNICAL DATA – Typical values for a thickness of 2.0 mm

Compressibility	ASTM F 36 J	%	11
Recovery	ASTM F 36 J	%	55
Stress relaxation DIN 52913	50 MPa, 16 h/175°C	MPa	37
	50 MPa, 16 h/300°C	MPa	25
Stress relaxation BS 7531	40 MPa, 16 h/300°C	MPa	25
KLINGER cold/hot compression	thickness decrease at 23°C	%	10
50 MPa	thickness decrease at 300°C	%	20
Tightness	DIN 28090-2	mg/(s x m)	0.02
Specific leakrate	VDI 2440	mbar x l/(s x m)	1.64E-08
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	1.6
Average surface resistance	οΟ	Ω	1.4x10E12
Average specific volume resistance	ρD	Ω cm	1.2x10E12
Average dielectric strength	Ed	kV/mm	21.6
Average power factor	50 Hz	tan δ	0.131
Average dielectric coefficient	50 Hz	εr	9.2
Thermal conductivity	λ	W/mK	0.42
Classification acc. to BS 7531:2006	Grade AY		
ASME-Code sealing factors			
for gasket thickness 2.0 mm	tightness class 0.1mg/s x m	MPa	y 15
			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-4400 A: small or no attack B: weak till moderate attack C: strong attack Chlorinated Paraffinic Moto Motor Mineral Acid Base Aromates Alcohol Ketone Ester Water hydrocarbon (diluted) hydrocarbon fuel oil lubricants (diluted) fluids Α в С С Α в Α С С Α Α Α

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.



Certified acc. to DIN EN ISO 9001:2015 Subject to technical alterations. Status: April 2020 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