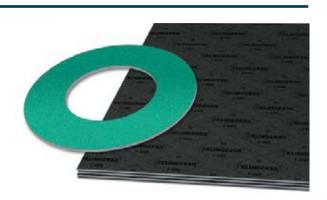




KLINGERSIL® C-4324 - universal gasket materia utilized in liquid and steam applications.

Manufactured from synthetic high-performance fibers bonded with NBR, this universal high-pressure gasket material is utilized in liquid and steam applications at lower pressures and temperatures. It is resistant to water, oils, hydrocarbons, refrigerants and other chemicals.



Basis composition: Synthetic high-performance fibers bonded with NBR.

Color: Black / Green

Certificates: DIN-DVGW, Elastomer-Guideline, WRAS approval, SVGW approval, DNV GL approval

Sheet size: 2000 x 1500 mm

Thickness: 0.5mm, 1.0mm, 1.5mm, 2.0mm, 3.0mm

Tolerances:

Thickness according to DIN 28091-1

Length: +/- 50 mm Width: +/- 50 mm















TECHNICAL DATA - Typical values for a thickness of 2.0 mm

Compressibility	ASTM F 36 J	%	10
Recovery	ASTM F 36 J	%	55
Stress relaxation DIN 52913	50 MPa, 16h/175°C	MPa	31
Ottess relaxation bit 52510	50 MPa, 16h/300°C	MPa	20
Stress relaxation BS 7531	40 MPa, 16h/300°C	MPa	23
KLINGER cold/hot compression 50MPa	thickness decrease at 23°C	%	10
KLINGER COM/HOT COMPRESSION SUMPA	thickness decrease at 300°C	%	25
Tightness	DIN 28090-2	mg/(s x m)	0.03
Thickness increase after fluid immersion	oil IRM 903: 5 h/150°C	%	5
ASTM F 146	fuel B: 5h/23°C	%	10
Density		g/cm ³	1.85
Average surface resistance	ρΟ	Ω	1.04x10E13
Average specific volume resistance	ρD	Ω cm	4.3x10E11
Average dielectric strength	Ed	kV/mm	12
Average power factor	50 Hz	$ an\delta$	0.109
Average dielectric coefficient	50 Hz	εr	9
Thermal conductivity	λ	W/mK	0.50
Classification acc. to BS 7531:2006	Grade Y		
ASME-Code sealing factors	tightness class 0.1 mg/s x m	MPa	y 15
for gasket thickness 2.0 mm			m 2.6

KLINGERSIL®

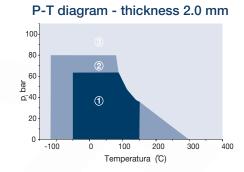
C-4324



P-T diagram - thickness 2.0 mm

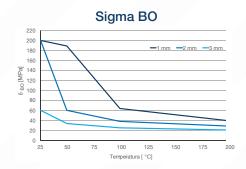
- 1 In area one, the gasket material is normally suitable subject to chemical compatibility.
- 2 In area two, the gasket material may be suitable but a technical evaluation is recommended.
- 3 In area three, do not install the gasket without a technical evaluation.

Always refer to the chemical resistance of the gasket to the media.



Maximum surface pressure in operating conditions of Sigma BO

This diagram shows the maximum surface pressure in MPa with which the sealing material may be loaded, depending on the operating temperature. The characteristic curves apply to the specified sealing thicknesses. In contrast to Qsmax according to EN 13555, the surface pressures specified here are based on a maximum permissible reduction in thickness.

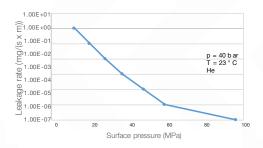


The tightness performance graph

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 40bar Helium at room temperature. The sloping curve indicates the ability of the gasket to increase tightness with raising gasket stress.

Tightness performance



Chemical resistance chart

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

A: small or no attack

B: weak till moderate attack

C: strong attack

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

For more information on chemical resistance please visit www.klinger.pt

All information is based on years of experience in production and operation of sealing elements. However, in view of the wic 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 claim notice.

