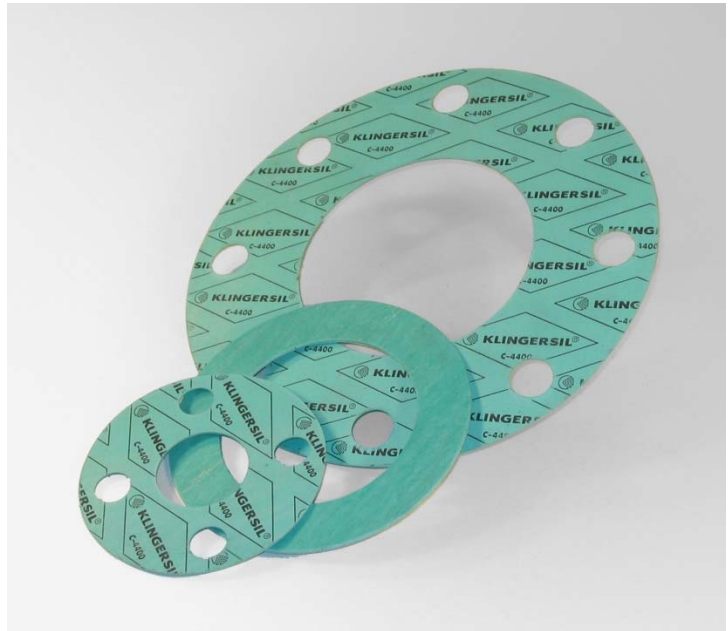




# KLINGERSIL C-4400



High quality non-asbestos grade based on aramid fibre with nitrile rubber binder. A general purpose material for many industrial-sealing applications.

The Klinger group has been recognised as the market leader in gaskets and sealing for over a century. Our research and development laboratories have investigated over 250 different fibre forms in the search for asbestos free alternatives. The search has resulted in a range of high quality and high performance asbestos free materials that have been proven in service

## GENERAL PROPERTIES

- » Good resistance to oils, fuels, hydrocarbons
- » Good creep resistance
- » Low leakage
- » Very successful in internal combustion engine applications
- » 3xA anti-stick finish on both sides

## TESTS AND CERTIFICATIONS

- » BS 7531 Grade Y
- » BS F 130 Type A
- » Firesafe HTB 90.0223.39.0
- » DIN-DVGW
- » BAM U W28 for use with oxygen 100°C / 80 Bar
- » KTW A 528/88/G
- » SVGW 89-053-7
- » Germanischer Lloyd 98 952 – 97 HH
- » TA-Luft (Clean Air) certificate acc. VDI 2440

## AVAILABILITY

- » Sheetting (m): 2.0 x 1.5\*, 4.0 x 1.5
- » Thickness (mm): 0.25, 0.4, 0.5, 0.75, 1.0, 1.5, 2.0, 2.5, 3.0

\* - Denotes standard sheet size

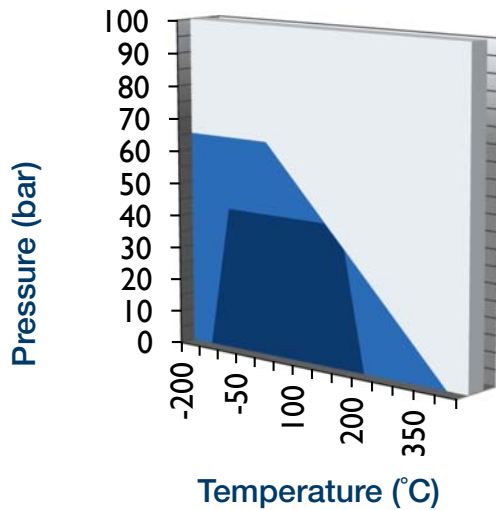
Also available with re-inforcements:

KLINGERSil C-4408, mild steel mesh

KLINGERSil C-4409, expanded mild steel

## APPLICATION GUIDELINES

# KLINGERSIL C-4400



- Caution: May be suitable but essential that you refer to Klinger for advice
- Usually Satisfactory, but suggest you refer to Klinger for advice
- Usually Satisfactory to Use Without Reference

NOTE: Chemical Compatibility should be considered in every case.

## TYPICAL SPECIFICATIONS

(Typical Values for 1.5mm thick material)

PROPERTIES	CONDITIONS	VALUES
Compressibility ASTM F 36 J		11 %
Recovery ASTM F 36 J		55 %
Stress relaxation DIN 52913	50MPa, 16h/175°C	37MPa
	50MPa, 16h/300°C	25MPa
Stress relaxation BS 7531	40MPa 16h/300°C	25MPa
Klinger cold/hot compression, 50MPa	Thickness decrease 23°C	10 %
	Thickness decrease at 300°C	20 %
Gas leakage according to DIN 3535/6		0.02mg/s.m
Thickness increase after fluid immersion ASTM F 146	Oil no.3:5h/150°C	3 %
	Fuel B:5h/23°C	5 %
Chlorides (soluble)		<150ppm
Density		1.6g/cm <sup>3</sup>
Average surface resistance	$\rho O$	$1.4 \times 10^{12} \Omega$
Average specific volume resistance	$\rho D$	$1.2 \times 10^{12} \Omega \text{ cm}$
Average dielectric strength	$E_d$	21.6 kV/mm
Average power factor	1kHz, ca. 2mm thick	0.131 tan $\delta$
Average dielectric constant	1kHz, ca. 2mm thick	9.2 $\epsilon_r$
Thermal conductivity	$\lambda$	0.40-0.42W/mK

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FM 602916

FM 10571

OHS 570166

EMS 570165