



# 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

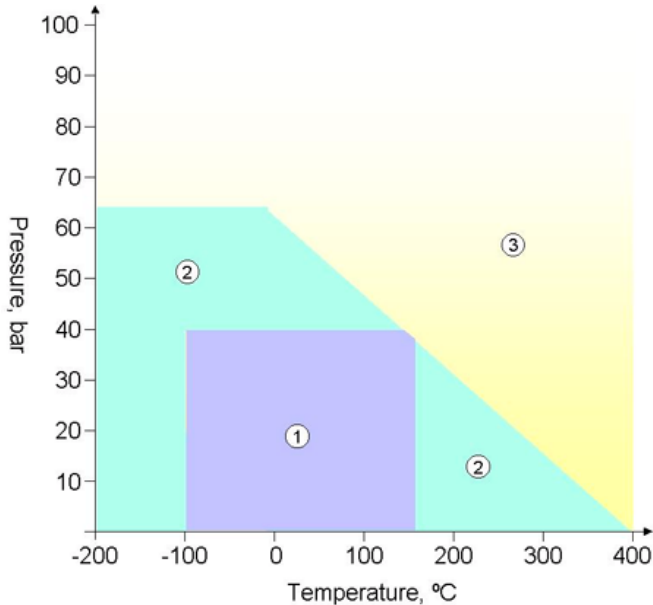
\* - Denotes standard sheet size

Also available with re-inforcements:  
 KLINGERSil C-4408, mild steel mesh  
 KLINGERSil C-4409, expanded mild steel



BS EN 9100:2003, ISO 9001:2008  
 Certificate no: FM 10571

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## Application Guidelines

1. Usually satisfactory without reference.
2. Usually satisfactory, but suggest you refer to Klinger for advice
3. Caution: May be suitable but essential that you refer to Klinger for advice.

Chemical compatibility must be considered in all cases.

## Typical Specifications

Compressibility ASTM F 36 A		11%
Recovery ASTM F 36 A		55%
Stress relaxation DIN 52913	50MPa, 16h/175°C	32MPa
	50MPa, 16h/300°C	25MPa
Stress relaxation BS 7531		23MPa
Klinger cold/hot compression, 50MPa	Thickness decrease 23°C	10%
	Thickness decrease at 300°C	20%
Gas leakage according to DIN 3535/6		0.02ml/min
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	R <sub>OA</sub>	1.4x10E12 Ω
Average specific volume resistance	ρ <sub>D</sub>	1.2x10E12 Ω cm
Average dielectric strength		21.6 kV/mm
Average power factor	1kHz, ca. 2mm thick	0.075 tan δ
Average dielectric constant	1kHz, ca.2mm thick	7.7 ε <sub>r</sub>
Thermal conductivity		0.4-0.42W/mK

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