



KLINGERSil C-4500

Top quality Klingsil grade based on carbon fibre with a nitrile rubber binder. A premium quality sealing material with outstanding resistance to alkaline media and steam.

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 steam
- Good resistance to alkaline applications
- Excellent load bearing characteristics
- Good creep resistance
- Good resistance to oils, fuels, hydrocarbons
- 3xA anti-stick finish on both sides

Tests and Certifications

- BS 7531 Grade X
- Firesafe API 6 FA, HTB
- DIN-DGVW 92.02 e 052
- BAM U W28 for use with oxygen 100 bar / 85^oC
- KTW C54a/94/Stf

Availability

- *Sheeting (m):* 2.0 x 1.5*, 4.0 x 1.5, 1.5 x 1.0
- *Thickness (mm):* 0.4, 0.5, 0.75, 1.0, 1.5, 2.0, 3.0

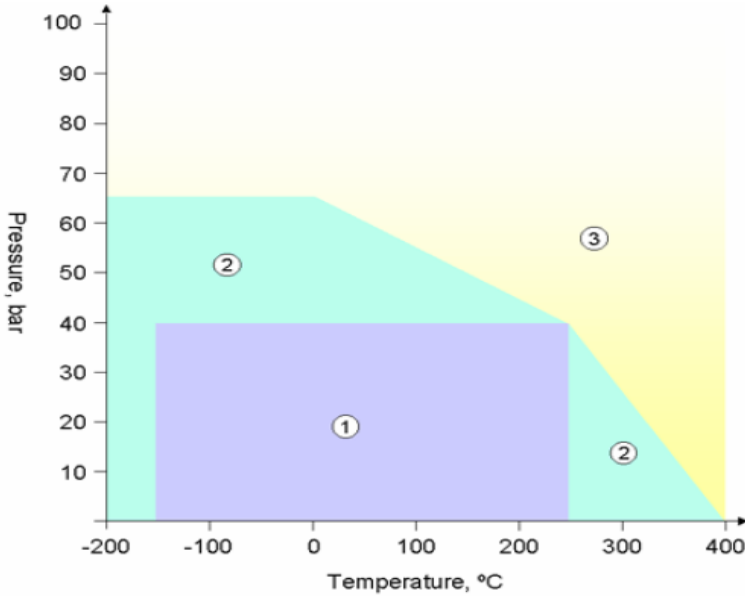
* - Denotes standard sheet size

Also available with re-inforcements:
KLINGERSil C-4509, expanded mild steel





KLINGERSil C-4500



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		12%
Recovery ASTM F 36 A		60%
Stress relaxation DIN 52913	50MPa, 16h/300°C	32MPa
Stress relaxation BS 7531		30MPa
Klinger cold/hot compression	Thickness decrease 23°C	10%
50MPa	decrease at 300°C	15%
Gas leakage according to DIN 3535/6		<1.0ml/min
Chlorides (soluble)		150ppm
Thickness increase after fluid	Oil nr.3:5h/150°C	3%
Immersion ASTM F 146	Fuel B:5h/23°C	5%
Density		1.4g/cm ³
Average surface resistance	R _{OA} (xE4)	5.7 Ω
Average specific volume resistance	ρ _D (xE4)	7.5 Ω cm
Average power factor		<0.1 kV/mm
Average dielectric strength	1kHz, ca. 3mm thick	0.147 tan δ
Average dielectric constant	1kHz, ca.3mm thick	9.7 ε
Heat conductivity		0.20W/mK

All information and recommendations contained in this specification sheet are to the best of our knowledge correct. Since conditions of use are beyond our control, users must satisfy themselves that the products are suitable for the intended processes and uses. No warranty is given or implied in respect of information or recommendations or that any use of products will not infringe rights belonging to other parties. In any event or occurrence our liability is limited to our invoice value of the goods delivered by us to you. We reserve the right to change product design and properties without notice

