KLINGER

Kilingersil C -4400

PRODUCT DATA SHEET

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

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

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*

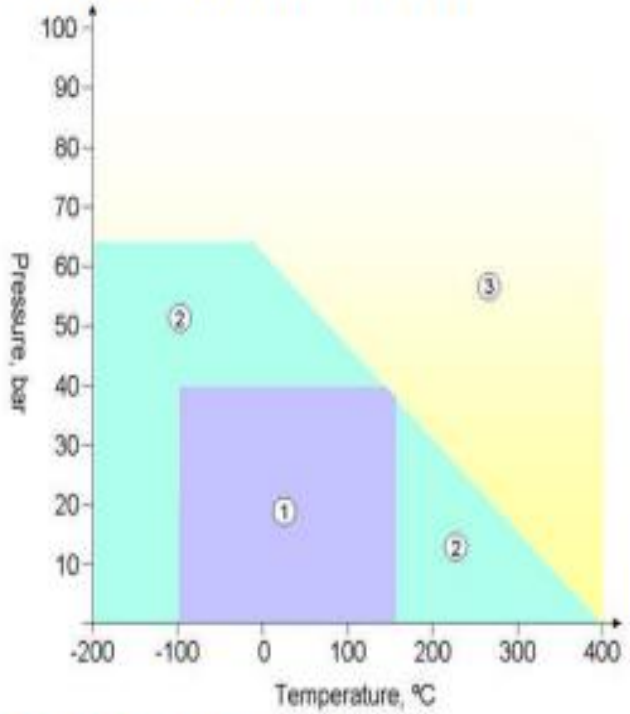
Availability

- *Sheeting (m): 2.0 x 1.5*, 4.0 x 1.5, 1.5 x 1.0*
- *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

KLINGERsil C-4400



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	*Oil no.3:5h/150°C*	*3%*
immersion ASTM F 146	*Fuel B:5h/23°C*	*5%*
Chlorides (soluble)		*150ppm*
Density		*1.6g/cm³*
Average surface resistance	R_{OA}	*1.4x10E12 Ω*
Average specific volume resistance	ρ_D	*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 εr*
Thermal conductivity		*0.4-0.42W/mK*