



# 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
- Firesafe HTB 90.0223.39.0
- DIN-DGVW NG-5123AT0251
- 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

#### 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

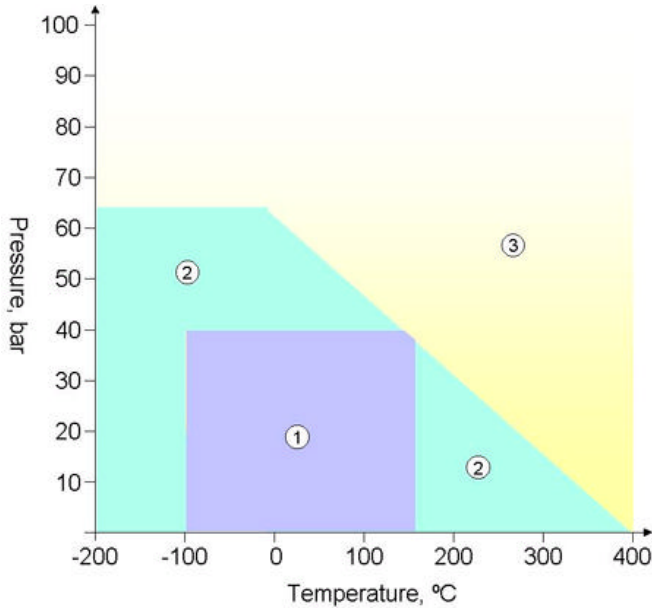
\* - Denotes standard sheet size

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



Certificate No. FM 10571

# 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/300°C	25MPa
Stress relaxation BS 7531		23MPa
Klinger cold/hot compression	Thickness decrease 23°C	10%
50MPa	decrease at 300°C	22%
Gas leakage according to DIN 3535/6		0.2ml/min
Chlorides (soluble)		150ppm
Thickness increase after fluid	Oil no.3:5h/150°C	3%
Immersion ASTM F 146	Fuel B:5h/23°C	5%
Density		1.6g/cm <sup>3</sup>
Average surface resistance	R <sub>OA</sub> (xE10)	3.6 Ω
Average specific volume resistance	r <sub>D</sub> (xE11)	1.4 Ω cm
Average power factor		24 kV/mm
Average dielectric strength	1kHz, ca. 3mm thick	0.147 tan δ
Average dielectric constant	1kHz, ca.3mm thick	9.7 er
Heat conductivity		0.40W/mK

### Head Office

KLINGER Ltd  
Wharfedale Road  
Euroway Trading Estate  
Bradford BD4 6SG

Tel: 01274 688 222  
Fax: 01274 688 549

### Klinger Ltd. Glasgow

Tel: 0141 941 1421  
Fax: 0141 952 7403

### Klinger Ltd. Aberdeen

Tel: 01224 772 962  
Fax: 01224 772 953

### Klinger Ltd. Middlesbrough

Tel: 01642 220 289  
Fax: 01642 220 290

### Klinger Ltd. Runcorn

Tel: 01928 577 030  
Fax: 01928 575 223

### Klinger Ltd. Grangemouth

Tel: 01324 472 231  
Fax: 01324 482 111

### Klinger Ltd. International

Tel: 020 8308 0100  
Fax: 020 8308 0200

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