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

BSI REGISTERED FIRM
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*
- *Firesafe HTB* 90.0223.39.0
- *DIN-DGVW NG-5123AT0251*
- *BAM U W28 for use with oxygen 100^{0}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*

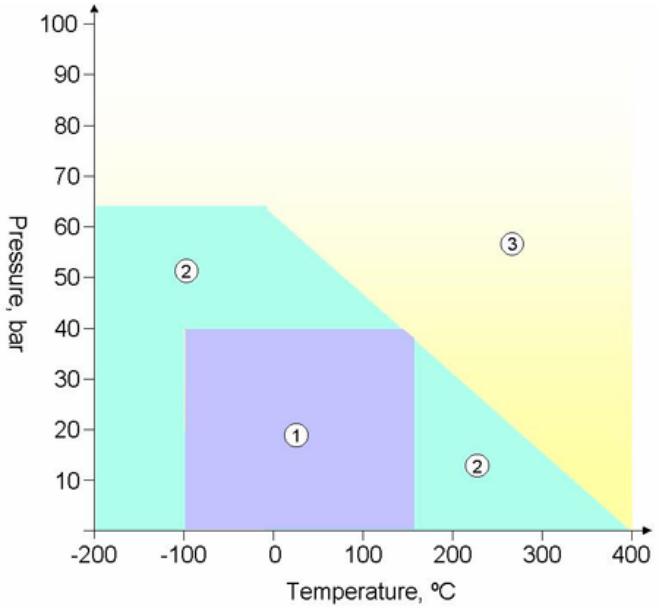
Availability

- *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/300^{0}C*	*25MPa*
Stress relaxation BS 7531		*23MPa*
Klinger cold/hot compression	*Thickness decrease 23^{0}C*	*10%*
50MPa	*decrease at 300^{0}C*	*22%*
Gas leakage according to DIN 3535/6		*0.2ml/min*
Chlorides (soluble)		*150ppm*
Thickness increase after fluid	*Oil no.3:5h/150^{0}C*	*3%*
Immersion ASTM F 146	*Fuel B:5h/23^{0}C*	*5%*
Density		*1.6g/cm^3*
Average surface resistance	*R_{OA} (xE10)*	*3.6 Ω*
Average specific volume resistance	*ρ_D (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 εr*
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. Grangemouth
Tel: 01324 472 231
Fax: 01324 482 111

Klinger Ltd. Runcorn
Tel: 01928 577 030
Fax: 01928 575 223

Klinger Ltd. Aberdeen
Tel: 01224 772 962
Fax: 01224 772 953

Klinger Ltd. International
Tel: 020 8308 0100
Fax: 020 8308 0200

Klinger Ltd. Middlesbrough
Tel: 01642 220 289
Fax: 01642 220 290

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