J. A. Harrison & Co Ltd

KLINGER

KLINGERsil C-4430

Optimised combination of synthetic fibres and glass-fibre bound with NBR. Premium quality jointing with high temperature resistance in steam and water as well as excellent resistance to oils and hydrocarbons.

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

Excellent creep resistance
Good steam resistance
Resistant to oils, fuels, hydrocarbons etc.
WRc approved for use in hot and cold potable water
Fire-safe
3xA anti-stick finish on both sides

Tests and Certifications

- *BS 7531 Grade X*
- *Firesafe BS 5146*
- *WRc Approval*
- *DIN-DGVW 92.01e052*
- *BAM U W28 for use with oxygen 100 bar / 85^{0}C*
- *KTW C55/94.Stf*
- *SVGW 92-149-7*
- *Germanischer Lloyd 98 953 – 97 HH*

Availability

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

** - Denotes standard sheet size*
Also available with re-inforcements:
KLINGERsil C-4438, mild steel mesh
KLINGERsil C-4439, expanded mild steel

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Certificate No.: 7243

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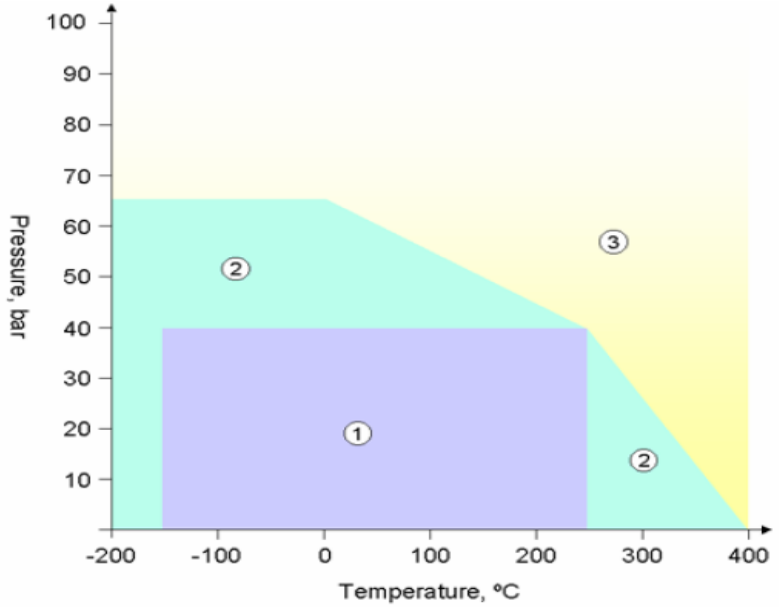

Application Guidelines

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		*50%*
Stress relaxation DIN 52913	*50MPa, 16h/300^{0}C*	*35MPa*
Stress relaxation BS 7531		*31MPa*
Klinger cold/hot compression (50MPa)	*Thickness decrease 23^{0}C*	*8%*
	decrease at 300^{0}C	*11%*
Gas leakage according to DIN 3535/6		*<1.0ml/min*
Chlorides (soluble)		*150ppm*
Thickness increase after fluid	*Oil nr.3:5h/150^{0}C*	*3%*
Immersion ASTM F 146	*Fuel B:5h/23^{0}C*	*5%*
Density		*1.55g/cm^3*
Average surface resistance	*R_{OA} (xE10)*	*6.8 Ω*
Average specific volume resistance	*ρ_D (xE11)*	*1.2 Ω cm*
Average power factor		*15.2 kV/mm*
Average dielectric strength	*1kHz,ca. 3mm thick*	*0.05 tan δ*
Average dielectric constant	*1kHz,ca.3mm thick*	*6.4 εr*
Heat conductivity		*0.42W/mK*