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 AX
- Firesafe BS 5146
- WRc Approval
- DIN-DGVW 92.01e052
- BAM U W28 for use with oxygen 100 bar / 85°C
- KTW C55/94.Stf
- SVGW 92-149-7
- TA-Luft (Clean Air) certificate acc. VDI 2440
- 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
Typical Specifications

Compressibility ASTM F 36 A 9%
Recovery ASTM F 36 A 50% min.

Stress relaxation DIN 52913
50MPa, 16h/175°C 39MPa
50MPa, 16h/300°C 35MPa

Stress relaxation BS 7531
31MPa

Klinger cold/hot compression, 50MPa
Thickness decrease 23°C 8%
Thickness decrease at 300°C 11%

Gas leakage according to DIN 3535/6
<0.1ml/min

Thickness increase after fluid immersion ASTM F 146
Oil no.3: 5h/150°C 3%
Fuel B: 5h/23°C 5%

Chlorides (soluble) 150ppm
Density 1.75g/cm³

Average surface resistance $R_{OA}$ 4.1x10E13 Ω
Average specific volume resistance $\rho_D$ 4.5x12E12 Ω cm
Average dielectric strength 21.3 kV/mm
Average power factor 1kHz, ca. 2mm thick 0.02 tan δ
Average dielectric constant 1kHz, ca. 2mm thick 6.4 εr
Thermal conductivity 0.42W/mK

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.

**Head Office**

**Klinger Ltd. Grangemouth**
Tel: 01324 472 231
Fax: 01324 482 111

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

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

**Klinger Ltd. Southampton**
Tel: 023 8061 1855
Fax: 023 8061 0360

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