



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.
- » WRAS approved for use in cold potable water
- » Fire-safe
- » 3xA anti-stick finish on both sides

TESTS AND CERTIFICATIONS

- » BS 7531 Grade AX
- » BAM-tested
- » DIN-DVGW
- » DIN-DVGW W 270
- » DVGW VP 401
- » Elastomer-Guideline
- » WRAS approval
- » DNV GL
- » TA-Luft (Clean air)
- » Fire-Safe acc. to DIN EN ISO 10497
- » Fire-Safe acc. to ISO 19921

AVAILABILITY

- » Sheeting (m): 2.0 x 1.5*, 4.0 x 1.5, 2.0 x 2.0, 6.0 x 2.0
- » 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

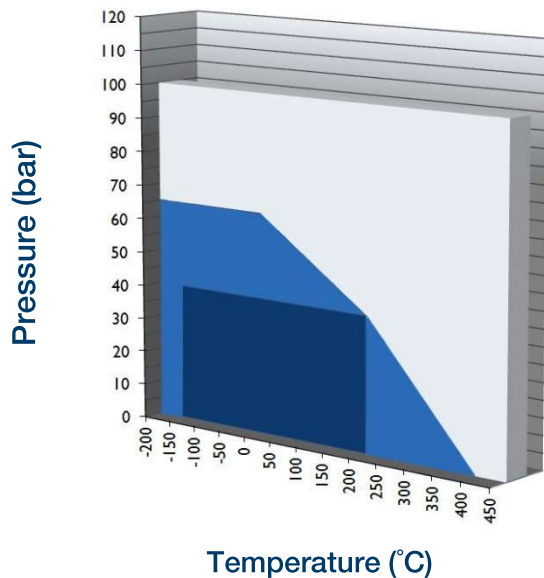
- Also available with re-inforcements:

KLINGERSil C-4438, mild steel mesh

KLINGERSil C-4439, expanded mild steel

APPLICATION GUIDELINES

KLINGERSIL C-4430



- Caution: May be suitable but essential that you refer to Klinger for advice
- Usually Satisfactory, but suggest you refer to Klinger for advice
- Usually Satisfactory to Use Without Reference

NOTE: Chemical Compatibility must be considered in all cases.

TYPICAL SPECIFICATIONS

(Typical values based on 2mm thick material)

| PROPERTIES | TEST CONDITIONS | VALUES |
|--|-----------------------------|--|
| Compressibility (ASTM F 36 J) | | 9% |
| Recovery (ASTM F 36 J) | | 55% |
| Stress relaxation (DIN 52913) | 50 MPa, 16h/ 175°C | 39MPa |
| | 50 MPa, 16h/ 300°C | 35MPa |
| Stress relaxation (BS 7531) | 40 MPa, 16h/ 300°C | 31MPa |
| Klinger cold/hot compression 50 MPa | thickness decrease at 23°C | 8% |
| | thickness decrease at 300°C | 11% |
| Tightness | DIN 28090-2 | 0.05 mg/s.m |
| Specific leakrate λ | VDI 2440 | $2.13e^{-05}$ mbar.l/s.m |
| Thickness increase after immersion in: | Oil IRM 903: 5 h/150°C | 3% |
| | Fuel B: 5 h/23°C | 5% |
| Average surface resistance | P_o | $4.1 \times 10^{13} \Omega$ |
| Average specific volume resistance | P_b | $4.5 \times 10^{12} \Omega \text{ cm}$ |
| Average dielectric strength | E_d | 21.3 kV/mm |
| Average power factor | 1kHz, ca. 2mm thick | 0.03 tan δ |
| Average dielectric constant | 1kHz, ca. 2mm thick | 6.7 ϵ_r |
| Density | | 1.75 g/cm ³ |

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KLINGER IMMINGHAM

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KLINGER MIDDLESBROUGH

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