



# 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 hot and 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

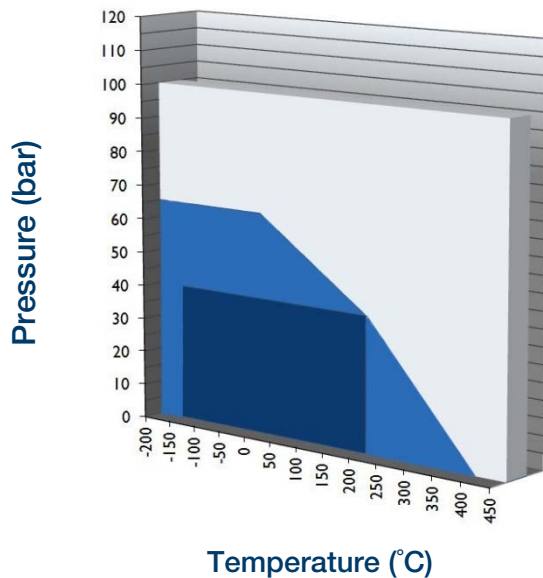
- Also available with re-inforcements:

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 $\lambda$	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	$0.03 \tan \delta$
Average dielectric constant	1kHz, ca. 2mm thick	$6.7 \epsilon_r$
Density		$1.75 \text{ g/cm}^3$

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