



KLINGER QUANTUM



Quantum was developed to bring an unprecedented level of flexibility for fibre reinforced gasket materials at high temperatures. Klinger Quantum is exclusively HNBR bound which affords the material excellent temperature resistance and better resilience across a much broader range of chemicals than all other fibre reinforced gasket materials.

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

- » Unique material with HNBR
- » Suitable for continuous service at 350°C
- » Outstanding resistance to steam
- » Excellent chemical resistance
- » 3xA anti-stick finish on both sides

TESTS AND CERTIFICATIONS

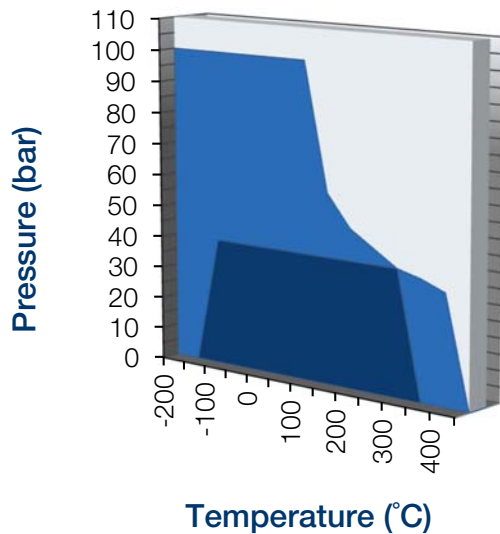
- » BS 7531 Grade AX
- » BAM-tested
- » DIN-DVGW
- » TA-Luft (Clean air)
- » Fire-Safe acc. to DIN EN ISO 10497
- » FDA conformity

AVAILABILITY

- » Sheeting (m): 2.0 x 1.5
- » Thickness (mm): 0.8, 1.0, 1.5, 2.0, 3.0

APPLICATION GUIDELINES

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- 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 for 2.0mm thick material)

PROPERTIES	CONDITIONS	VALUES
Compressibility ASTM F 36 J		10%
Recovery ASTM F 36 J		60% min.
Stress relaxation DIN 52913	50MPa, 16h/175°C	32MPa
	50MPa, 16h/300°C	28MPa
Stress relaxation BS 7531		27MPa
Klinger cold/hot compression, 50MPa	Thickness decrease 23°C	10 %
	Thickness decrease at 300°C	14 %
	Thickness decrease at 400°C	20 %
Thickness increase after fluid immersion ASTM F 146	Oil no.3:5h/150°C	3 %
	Fuel B:5h/23°C	5 %
Density		1.7g/cm ³
Tightness	DIN 28090-2	<0.02mg/(m.s)
Specific leak rate λ	VDI 2440	4.4x10 ⁻⁸ mbar.l/(m.s)
Thermal conductivity		0.44 W/mK

HEAD OFFICE

KLINGER Ltd
Wharfedale Road
Euroway Trading Estate
Bradford BD4 6SG

Tel: 01274 688 222
Fax: 01274 688 549
www.klinger.co.uk
enquiries@klingeruk.co.uk



FM 602916 FM 10571 OHS 570166 EMS 570165

KLINGER RUNCORN

Tel: 01928 577 030
Fax: 01928 575 233

KLINGER SOUTHAMPTON

Tel: 02380 611 855
Fax: 02380 610 360

KLINGER ABERDEEN

Tel: 01224 772 962
Fax: 01224 772 953

KLINGER IMMINGHAM

Tel: 01469 575 289
Fax: 08449 676 779

KLINGER MIDDLESBROUGH

Tel: 01642 220 289
Fax: 01642 220 290

KLINGER GRANGEMOUTH

Tel: 01324 472 231
Fax: 01324 482 111