KLINGER TOP-SIL-ML1

Optimised, unique multi-layer combination of a HNBR and NBR Matrices. Premium quality jointing with high temperature resistance in steam and water as well as excellent resistance to oils and hydrocarbons.

This multilayer structure makes it possible to develop materials with new property profiles. The layers containing the elastomers remain flexible over longer periods than standard material, even at higher temperatures, are therefore able to compensate for dynamic loading fluctuations induced by the flange. This flexibility suppresses the creation of micro-crevices, which are responsible for gasket leakage. The layers containing standard elastomers are better able to resist deformation under load due to the formation of a denser network. The gasket remains flexible but still retains its strength.

APPLICATIONS

» Designed for high temperatures, steam, oils and hydrocarbons

GENERAL PROPERTIES

» Unique multilayer material designed for high temperature service
» Outstanding resistance to steam
» Available in sheet form and as cut gaskets
» Excellent creep resistance
» Resistant to oils, fuels, hydrocarbons etc.
» WRAS approved for use in hot and cold potable water
» 3xA anti-stick finish on both sides

TESTS AND CERTIFICATES

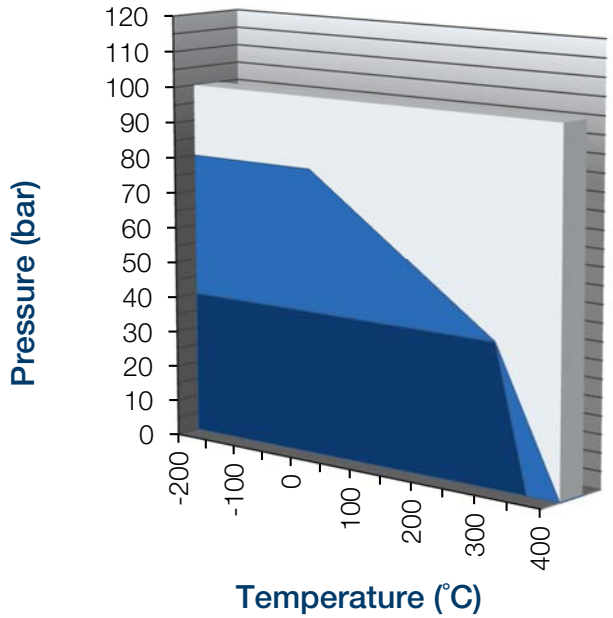
» BS 7531 Grade X
» BAM-tested
» DIN-DVGW
» WRAS approval
» TA-Luft (Clean air)
» Fire-Safe acc. to DIN EN ISO 10497

AVAILABILITY

» Sheeting (m):	2.0 x 1.5*, 4.0 x 1.5
» Thickness (mm):	0.75, 1.0, 1.5, 2.0, 3.0

APPLICATION GUIDELINES

TOP-SIL-ML1



- 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		9%
Recovery ASTM F 36 J		50%
Stress relaxation DIN 52913	50MPa, 16h/175˚C	34MPa
	50MPa, 16h/300 ˚C	28MPa
Klinger cold/hot compression (50MPa)	Thickness decrease 23˚C	8%
	decrease at 300˚C	15%
Tightness	DIN 28090-2	0.05 mg/s.m
Thickness increase after immersion in:	Oil IRM 903, 5h/150˚C	4%
	Fuel B, 5h/23 ˚C	8%
Density		1.7g/cm^3

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bsi. AS/EN 9100 Series Aviation, Space and Defense | ISO 9001 Quality Management | OHSAS 18001 Occupational Health & Safety Management | ISO 14001 Environmental Management

FM 602916 FM 10571 OHS 570166 EMS 570165

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KLINGER ABERDEEN
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KLINGER IMMINGHAM
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