

Approval Certificate



This is to certify, that the undernoted products have been approved in accordance with the relevant requirements of the GL Approval System.

Certificate No. 47 710 - 03 HH

Company Rich. Klinger Dichtungstechnik GmbH & Co. KG

Am Kanal 8 - 10
2352 Gumpoldskirchen, AUSTRIA

Product FLAT GASKETS

Type KLINGERTop-graph-2000
KLINGERTop-graph-2009

Technical Data /
Application

TECHNICAL DATA (continued)

Type	KLINGERTop-graph-2000
Density	1.75 [g/cm ³]
Compressibility	10% { ASTM F 36 J }
Recovery	=/ > 60% { ASTM F 36 J }
Tightness	0.5 [ml/min] { DIN 3535-6 }
Soluble chloride content	< 50 [ppm]
Klinger cold / hot compression, 50 MPa	thickness decrease at 23 [°C]: 10% thickness decrease at 300 [°C]: 10%

RANGE OF APPLICATION

The gaskets may be used under consideration of the mechanical and physical properties as well as the chemical resistance as follows:

- Ship's piping systems excluding cargo lines on Chemical and Gas Tankers carrying propylene oxide and mixtures of ethylene / propylene oxide.
- Maximum allowable working pressure and temperature according to the specification of the manufacturer.

Approval Standard • ASTM and DIN

Documents • Test Reports
• Technical Data
• Audit Report

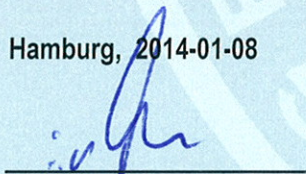
Remarks • TECHNICAL DATA, PRODUCTION PLACES and REMARKS / LIMITATIONS
see page 2.

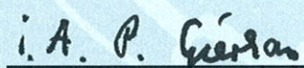
Valid until 2018-11-20

File No. XI.B.03

Germanischer Lloyd

Hamburg, 2014-01-08


Olaf Drews


Peter Gierhan

Approval Certificate



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TECHNICAL DATA

Type	KLINGERTop-graph-2009
Density	2.25 [g/cm ³]
Compressibility	9% { ASTM F 36 J }
Recovery	=/ > 60% { ASTM F 36 J }
Tightness	0.1 [mg/sm]
Soluble chloride content	150 [ppm]
Klinger cold / hot compression, 50 MPa	thickness decrease at 23 [°C]: 10% thickness decrease at 300 [°C]: 10%

PRODUCTION PLACES

Rich. Klinger Dichtungstechnik GmbH & Co. KG
Am Kanal 8-10
2352 Gumpoldskirchen
AUSTRIA

REMARKS / LIMITATIONS

The selection of the gaskets for the corresponding application and the appropriate installation is to be in acc. with the instructions of the manufacturer.

Germanischer Lloyd

Hamburg, 2014-01-08


Olaf Drews


Peter Gierhan