

# 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.	12 401 - 10 HH
Company	Rich. Klinger Dichtungstechnik GmbH & Co. KG Am Kanal 8-10 2352 Gumpoldskirchen, AUSTRIA
Product	FLAT GASKETS
Type	KLINGER@top-sil-ML1 MULTILAYER
Technical Data / Application	TECHNICAL DATA Density: 1.7 [g/cm <sup>3</sup> ] Compressibility: 9% {ASTM F 36 J} Recovery: > 50% {ASTM F 36 J} Tightness: <0.1 [mg/sxm] {DIN 3535-6} Klinger cold / hot compression: thickness decrease at 23 [°C]: 8% 50 MPa thickness decrease at 300 [°C]: 15% Stress relaxation: 16 h / 175 °C, 34 Mpa (DIN 52913) 50 Mpa 16 h / 300 °C, 28 Mpa (DIN 52913)
Approval Standard	• ASTM, DIN and other recognized test standards
Documents	• Test Reports • Technical Data • Audit Report
Remarks	• RANGE OF APPLICATION see page 2
Valid until	2015-11-06
File No.	XI.B.03

**Germanischer Lloyd**

Hamburg, 2010-11-05

*Hanspeter Raschle*

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*Peter Gierhan*

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## 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.
- The selection of the gaskets for the corresponding application and the right installation are to be in accordance with the instructions of the manufacturer.

**Germanischer Lloyd**

Hamburg, 2010-11-05

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