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.	**98 949 - 97 HH**
Company	**Rich. Klinger Dichtungstechnik GmbH & Co. KG** **Am Kanal 8-10** **2352 Gumpoldskirchen, AUSTRIA**
Product	**FLAT GASKETS - ASBESTOS FREE**
Type	**KLINGERtop-chem-2000**
Technical Data / Application	**TECHNICAL DATA** **Type** — **KLINGERtop-chem-2000** **Density** — **2.5 [g/cm³]** **Compressibility** — **2% { ASTM F 36 J }** **Recovery** — **=/> 55% { ASTM F 36 J }** **Tightness** — **0.5 [ml/min] { DIN 3535-6 }** **Klinger cold / hot compression, 50 MPa** — **thickness decrease at 23 [°C]: 2%** **thickness decrease at 250 [°C]: 5%** **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 including cargo lines on Chemical and Gas Tankers carrying propylene oxide and mixtures of ethylene / propylen 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	**• PRODUCTION PLACES and REMARKS / LIMITATIONS see page 2.**
Valid until	**2018-11-20**
File No.	**XI.B.03**

Germanischer Lloyd

Hamburg, 2014-01-08

i.V.

Olaf Drews

i.A. P. Gierhan

Peter Gierhan

Approval Certificate

Certificate No. **98 949 - 97 HH**

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

i.V.
Olaf Drews

i.A. P. Gierhan
Peter Gierhan