



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

Certificate No.

98 950 - 97 HH

Company

Rich. Klinger Dichtungstechnik GmbH & Co. KG

Am Kanal 8-10

2352 Gumpoldskirchen, AUSTRIA

Product

FLAT GASKETS - ASBESTOS FREE

Type

KLINGERtop-chem-2003 / 2005 / 2006

Technical Data / Application

TECHNICAL DATA (continued)

Type

Density

Compressibility

Recovery

Tightness

Klinger cold / hot compression, 25 MPa

KLINGERtop-chem-2003

1.7 [g/cm³]

16% { ASTM F 36 J }

=/> 35% { ASTM F 36 J }

0.1 [ml/min] { DIN 3535-6 }

thickness decrease at 23 [°C]: 9%

thickness decrease at 250 [°C]: 38%

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

• 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

Page 1 of 2

Approval Certificate



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TECHNICAL DATA

Type Density Compressibility Recovery

Tightness Klinger cold / hot compression, 50MPa

Type Density Compressibility Recovery **Tightness**

Klinger cold / hot compression, 50 MPa

KLINGERtop-chem-2005

2.2 [g/cm³] 3% { ASTM F 36 J } =/> 40% { ASTM F 36 J } 0.2 [ml/min] { DIN 3535-6 }

thickness decrease at 23 [°C]: 10% thickness decrease at 250 [°C]: 30%

KLINGERtop-chem-2006 2.9 [g/cm³] 4% { ASTM F 36 J } =/> 40% { ASTM F 36 J } 0.1 [ml/min] { DIN 3535-6 }

thickness decrease at 23 [°C]: 10% thickness decrease at 250 [°C]: 40%

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

i. A. P. Guran Peter Gierhan

Page 2 of 2