

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. 98 951 - 97 HH

Company Rich. Klinger Dichtungstechnik GmbH & Co. KG

Am Kanal 8-10
2352 Gumpoldskirchen, AUSTRIA

Product FLAT GASKETS - ASBESTOS FREE

Type KLINGERSIL C-4300 / 4243 / 4324 / 4400

Technical Data /
Application

TECHNICAL DATA (continued)

Type	KLINGERSIL C-4300
Density	1.6 [g/cm ³]
Compressibility	14% { ASTM F 36 J }
Recovery	=/≥ 50% { ASTM F 36 J }
Tightness	0.2 [ml/min] { DIN 3535-6 }
Soluble chloride content	150 [ppm]
Klinger cold / hot compression, 50 MPa	thickness decrease at 23 [°C]: 10% thickness decrease at 300 [°C]: 25%

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.

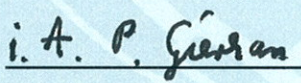
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File No. XI.B.03

Germanischer Lloyd

Hamburg, 2014-01-08


Olaf Drews


Peter Gierhan

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TECHNICAL DATA

Type	KLINGERSIL C-4243
Density	1.75 [g/cm ³]
Compressibility	8% { ASTM F 36 A }
Recovery	=/≥ 55% { ASTM F 36 A }
Tightness	0.4 [ml/min] { DIN 3535-6 }
Klinger cold / hot compression, 50 MPa	thickness decrease at 23 [°C]: 10% thickness decrease at 200 [°C]: 25%

Type	KLINGERSIL C-4324
Density	1.85 [g/cm ³]
Compressibility	10% { ASTM F 36 J }
Recovery	=/≥ 55% { ASTM F 36 J }
Tightness	0.4 [ml/min] { DIN 3535-6 }
Klinger cold / hot compression, 50 MPa	thickness decrease at 23 [°C]: 10% thickness decrease at 300 [°C]: 25%

Type	KLINGERSIL C-4400
Density	1.6 [g/cm ³]
Compressibility	11% { ASTM F 36 J }
Recovery	=/≥ 55% { ASTM F 36 J }
Tightness	0.2 [ml/min] { DIN 3535-6 }
Soluble chloride content	150 [ppm]
Klinger cold / hot compression, 50 MPa	thickness decrease at 23 [°C]: 10% thickness decrease at 300 [°C]: 22%

PRODUCTION PLACES

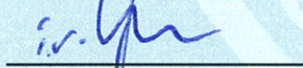
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AUSTRIA

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