

Type Approval Certificate



This is to certify that the undernoted product(s) has/have been tested in accordance with the relevant requirements of the GL Type Approval System.

Certificate No. 98 951 - 97 HH

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

Product Description FLAT GASKETS

Type KLINGERSIL C-4300 / 4243 / 4324 / 4400

Environmental Category None

Technical Data / TECHNICAL DATA (continued)

Range of Application

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.

Test Standard • ASTM and DIN

Documents • Test Reports
• Technical Data
• Audit Report

Remarks • None

Valid until 2013-11-20

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Type Approval Symbol



File No. II.C.09

Hamburg, 2008-11-20

Germanischer Lloyd

Hanspeter Raschle
Hanspeter Raschle

Peter Gierman
Peter Gierman

This certificate is issued on the basis of "Guidelines for the Performance of Type Approvals Part 1, Procedure".

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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 }
Tightness	0.04 [mg/sm] { DIN 28090-2 }
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 3535-4 }
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%

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

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