



# Type Approval Certificate

Germanischer Lloyd

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  
A-2352 Gumpoldskirchen

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 <sup>3</sup> ]
	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	thicknees decrease at 23 [°C]: 10% thicknees 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 2008-11-20

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Type Approval Symbol



File No. II.C.09

Hamburg, 2003-11-21

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## TECHNICAL DATA

Type	KLINGERSIL C-4243
Density	1.75 [g/cm <sup>3</sup> ]
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	thicknees decrease at 23 [°C]: 10% thicknees decrease at 200 [°C]: 25%

Type	KLINGERSIL C-4324
Density	1.85 [g/cm <sup>3</sup> ]
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	thicknees decrease at 23 [°C]: 10% thicknees decrease at 300 [°C]: 25%

Type	KLINGERSIL C-4400
Density	1.6 [g/cm <sup>3</sup> ]
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	thicknees decrease at 23 [°C]: 10% thicknees 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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