

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 /
Range of Application

TECHNICAL DATA (continued)

Type

Density Compressibility

Recovery Tightness

Soluble chloride content

Klinger cold / hot compression, 50 MPa

KLINGERSIL C-4300

1.6 [g/cm³]

14% { ASTM F 36 J } =/> 50% { ASTM F 36 J }

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

150 [ppm]

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 / propylen oxide.

Maximum allowable working pressure and temperature according to the specification of the manufacturer.

Test Standard

ASTM and DIN

Documents

Test ReportsTechnical DataAudit Report

Remarks

None

Valid until

2008-11-20

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II.C.09

File No.

Hamburg, 2003-11-21

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G. Hölzer

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This certificate is issued on the basis of "Regulations for the Performance of Type Tests, Part 0, Procedure".





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TECHNICAL DATA

Type KLINGERSIL C-4243

Density 1.75 [g/cm³]

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/cm³]

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/cm³]

 Compressibility
 11% { ASTM F 36 J }

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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