



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

Certificate No. 50 628 - 03 HH

Company KLINGER AG Egliswil

Industrie Nord Webereistrasse 1

5704 Egliswil, SWITZERLAND

Product FLAT GASKETS

Type KLINGER MILAM LAMINATE PSS130 / 150 / 200 / 300, MICA SHEETS LAMINATED

WITH PEGGED STAINLESS STEEL INSERT, NO-ASBESTOS

Technical Data / Application

TECHNICAL DATA (continued)

Type PSS130

Compressibility 12 [%] - 20 [%] {ASTM F36A} Recovery 30 [%] - 40 [%] {ASTM F36A}

Ignition loss < 5 [%] {DIN 52911}

 Stress relaxation
 > 33 [Mpa] {50 [Mpa] / 300 [°C], DIN 52913}

 Stress relaxation
 > 28 [Mpa] {40 [Mpa] / 300 [°C], BS 7531}

Tang insert / thickness AISI 316 / 0.10 [mm]
Continuous service temperature max. 900 [°C]

Approval Standard • ASTM and DIN

Documents • Test Reports

• Audit Report, Ref.-No.: 0107010, dated: 24.10-2013

• ISO 9001:2008, ISO 14001:2004

GL-Ref.-No.: 13-078658

Remarks None

Valid until 2018-12-03

File No. XI.B.03

Germanischer Lloyd

Hamburg, 2013-11-26

Michael Kämpf Peter Gierhan

Page 1 of 3

Approval Certificate



Certificate No.

50 628 - 03 HH

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.

TECHNICAL DATA (continued)

Type

Gas leakage at 30 MPA / 6 bars

Stress Thickness

Thickness tolerance

Sheet sizes

Type

Compressibility

Recovery

Ignition loss

Stress relaxation

Stress relaxation

Tang insert / thickness

Continuous service temperature Gas leakage at 30 MPA / 6 bars

Stress

Thickness

Thickness tolerance

Sheet sizes

Type

Compressibility

Recovery

Ignition loss

Stress relaxation

Stress relaxation

PSS130

max. 0.10 [mg/s/m], temperature: 100 to 400 [°C], gasket sizes: 90 x 50 [mm]

max. 100 [MPa]

1.30 [mm]

+/- 8 [%] of nominal thickness

1200 x 1000 x 1.30 [mm]

PSS150

12 [%] - 20 [%] {ASTM F36A}

35 [%] - 45 [%] {ASTM F36A}

< 5 [%] {DIN 52911}

> 33 [MPa] {50 [MPa] / 300 [°C], DIN 52913}

> 28 [MPa] {40 [MPa] / 300 [°C], BS 7531}

AISI 316 / 0.10 [mm]

max. 900 [°C]

max. 0.10 [mg/s/m], temperature: 100 to 400 [°C], gasket sizes: 90 x 50 [mm]

max. 90 [MPa]

1.50 [mm]

+/- 8 [%] of nominal thickness

1200 x 1000 x 1.50 [mm]

PSS200

15 [%] - 23 [%] {ASTM F36A}

32 [%] - 42 [%] {ASTM F36A}

< 5 [%] {DIN 52911}

> 33 [MPa] {50 [MPa] / 300 [°C], DIN 52913}

> 28 [MPa] {40 [MPa] / 300 [°C], BS 7531}

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Page 2 of 3

Approval Certificate



Certificate No.

50 628 - 03 HH

TECHNICAL DATA

Type

Tang insert / thickness

Continuous service temperature

Gas leakage at 30 MPA / 6 bars

Stress

Thickness

Thickness tolerance

Sheet sizes

Type

Compressibility

Recovery

Ignition loss

Stress relaxation

Stress relaxation

Two tang inserts / thickness

Continuous service temperature

Gas leakage at 40 MPA / 6 bars

Stress

Thickness

Thickness tolerance

Sheet sizes

PSS200

AISI 316 / 0.10 [mm]

max. 900 [°C]

max. 0.10 [mg/s/m], temperature: 100 to 400 [°C], gasket sizes: 90 x 50 [mm]

max. 80 [Mpa]

2.00 [mm]

+/- 10 [%] of nominal thickness

1200 x 1000 x 2.00 [mm]

PSS300

18 [%] - 26 [%] {ASTM F36A}

28 [%] - 38 [%] {ASTM F36A}

< 15 [%] {DIN 52911}

> 30 [Mpa] {50 [Mpa] / 300 [°C], DIN 52913}

> 20 [Mpa] {40 [Mpa] / 300 [°C], BS 7531}

AISI 316 / 0.10 [mm]

max. 900 [°C]

max. 1.50 [mg/s/m], temperature: 150 to 400 [°C], gasket sizes: 90 x 50 [mm]

max. 80 [Mpa]

3.20 [mm]

+/- 10 [%] of nominal thickness

1200 x 1000 x 3.20 [mm]

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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Page 3 of 3