



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

Certificate No.

47 992 - 03 HH

Company

KLINGER AG Egliswil

Industrie Nord Webereistrasse 1

5704 Egliswil, SWITZERLAND

Product

FLAT GASKETS

Type

KLINGER GRAPHITE LAMINATE PSM...B WITH PEGGED STAINLESS STEEL

INSERT, NO-ASBESTOS

Technical Data / Application

TECHNICAL DATA (continued)

Type **Purity of Graphite Density of Graphite** Tang insert / thickness Compressibility

1.00 [g/cm3] +/- 5 [%] AISI 316 / 0.10 [mm]

Recovery Soluble chloride content 25 [%] - 45 [%] {ASTM F36A} 12 [%] -20 [%] {ASTM F36A}

max. 40 [ppm]

min. 98 [%] carbon

PSM...B

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

Approval Certificate



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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

Type
Thickness increase ASTM Oil 3
Stress relaxation
Continuous service temperature in oxidizing atmosphere
Thicknesses
Thicknesses tolerance
Sheet size

PSM...B max. 2 [%] min. 48 [MPa] {DIN 52913} max. 450 [°C] 0.60, 0.80, 1.00, 1.50, 2.00, 3.00 [mm] +/- 5 [%] of nominal thickness 1000 x 1000 +/- 5 [mm] 1500 x 1500 +/- 5 [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.

Germanischer Lloyd

Hamburg, 2013-11-26

Michael Kämpf

Peter Gierhan