

Approval Certificate



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

Certificate No. 60 035 - 13 HH

Company SGL Carbon GmbH
Werk Meitingen
Werner-von-Siemens-Str. 18
86405 Meitingen, GERMANY

Product SIGRAFLEX METAL - REINFORCED IMPREGNATED GRAPHITE SHEETS

Type SIGRAFLEX® UNIVERSAL - Asbestos free

Technical Data / Application TECHNICAL DATA
Graphite bulk density: 1.0 [g/cm³] (+/- 5 [%])
Ash content (DIN 51 903): =/< 2 [%]
Chloride content: =/< 25 [ppm]
Thickness of gasket sheets: 1.0 [mm] to 3.0 [mm]
Thickness of reinforcing sheets: 0.1 [mm] (DIN material no. 1.4401)
(1 or 2 reinforcing sheets depending on total thickness of gaskets)

RANGE OF APPLICATION

The gaskets are approved under consideration of the mechanical and physical properties as well as the chemical resistance as follows:

- Ship`s piping systems including 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.

The selection of the gaskets for the corresponding service and the right installation are to be in accordance with the instructions of the manufacturer.

Approval Standard • ASTM and DIN

Documents • Test Report BAM - Ref. No. 4.2-838/89 dated 27.03.1990
• Data Sheets: SIGRAFLEX® UNIVERSAL, dated: 04/2009

Remarks None

Valid until 2018-04-26

File No. XI.B.03

Germanischer Lloyd

Hamburg, 2013-03-26

Handwritten signature of Hanspeter Raschle in black ink.

Hanspeter Raschle

Handwritten signature of Peter Gierhan in black ink.

Peter Gierhan