

# 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. 20 493 - 11 HH

Company FMI S.p.A.

Via Taranto 10/12  
25036 Palazzolo Sull' Oglio, ITALY

Product FLAT GASKETS  
NON-ASBESTOS OIL RESISTANCE KEVLAR FIBER GASKETS

Type Flexseals AF 163

Technical Data /  
Application TECHNICAL DATA

Colour	light green
Binder	NBR
Density	1,7 - 1,9 [g/ cm3]
Tensile strength	6 - 7 [MPa]
Compressibility	12 - 15 [%]
Recovery	5 -6 [%]
Gas Permeability	<0,1[mg/ sxm]

The specified data are for gasket of 2 mm thickness.

Temperature	max. 180 [°C]
Pressure	max. 7 [MPa]
Dimension	1,5 x 1,5 [m] +/- 50 [mm]
Thickness	0,5 to 5,0 [mm] +/- 10 [%]

RANGE OF APPLICATION refer to page 2

Approval Standard DIN 3535-6, ASTM F36J

Documents

- Technical documentation MQ-01
- Technical data MQ-01
- Test report no. 10001acc. to DIN 10204, 2112541-001, FS.002.080.200
- Audit report dated 2011-10-07, ISO 9001:2008 Certificate

Remarks None

Valid until 2016-11-01

File No. XI.B.03

**Germanischer Lloyd**

Hamburg, 2011-11-08

A handwritten signature in blue ink, appearing to read 'Hanspeter Raschle', is written over a horizontal line.

Hanspeter Raschle

A handwritten signature in blue ink, appearing to read 'Sven Dudzus', is written over a horizontal line.

Sven Dudzus



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## RANGE OF APPLICATION

The gaskets may be used under the consideration of the mechanical and physical properties as well as the chemical resistance as follows:

- Ship's piping systems excluding steam lines and cargo lines on Chemical and Gas Tankers carrying propylene oxide and mixtures of ethylene( propylene oxide.
- Maximum allowable working pressure and temperatures according to the specification of the manufacturer.

The selection of the gaskets for the corresponding application and the appropriate installation is to be in accordance with the instructions of the manufacturer.

**Germanischer Lloyd**

Hamburg, 2011-11-08

A handwritten signature in blue ink, appearing to read 'i.V. Hanspeter Raschle', written over a horizontal line.

Hanspeter Raschle

A handwritten signature in blue ink, appearing to read 'i.A. S. Dudzus', written over a horizontal line.

Sven Dudzus