

# 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. 94 612 - 10 HH

Company Frenzelit-Werke GmbH & Co. KG

Frankenhammer 7  
95460 Bad Berneck, GERMANY

Product PTFE based Flat Gasket  
(structured and modified PTFE, filled with functional fillers)

Type novafion 100, 200, 300, 500

Technical Data /  
Application

Technical Data

Material	100	200	300	500
Density (DIN 28090-2) - g/cm <sup>3</sup>	1,7	2,9	2,1	0,9
Compressibility (F36) - %	25	3	5	50
Recovery (ASTM F36J) - %	40	45	45	10
Residual stress 30MPa@150°C (DIN 52913)- N/mm <sup>2</sup>	12	14	16	18
Cold compressibility (DIN 28090-2) - %	20	3	3	40
Hot creep 20MPa@150°C (DIN 28090-2) - %	45	40	20	15
Tightness (DIN 3535-6) - mg/(sxm)	<0,015	<0,015	<0,015	<0,015

Dimensions (mm) : 1500 x 1500

Thickness (mm) : 1,5, 2,0, 3,0

Application  
Refer to page 2.

Approval Standard DIN 86076:2007, ASTM F36, DIN 52910, DIN 3535-6, DIN 28090

Documents  
- Test report dated 26.04.2010 DIN 52913, DVGW test reports acc. to  
DIN 3535-6, Quality control reports according to standards referenced.  
- Audit report  
- Technical data sheets

Remarks None

Valid until 2015-06-15

File No. XI.B.03

**Germanischer Lloyd**

Hamburg, 2010-06-16

Two handwritten signatures are present. The first signature is 'Hanspeter Raschle' and the second is 'Hagen Markus'. Both are written in black ink over a horizontal line.

Hanspeter Raschle

Hagen Markus

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## Application

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

The selection of the gasket material for the corresponding service, the storage and the right installation are to be according to the manufacturers instruction.

**Germanischer Lloyd**

Hamburg, 2010-06-16

*Hanspeter Raschle*      *Hagen Markus*

Hanspeter Raschle

Hagen Markus