

APPROVAL CERTIFICATE

DNV·GL

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

Certificate No. **94 611 - 10 HH**

Company **Frenzelit Werke GmbH**
Frankenhammer 7
95460 Bad Berneck, GERMANY

Product **Expanded graphite reinforced with expanded stainless steel or multilayer reinforcement or wire mesh made of AISI 316L / 1.4404**

Type **novaphit® SSTC, SSTC TA-L, MST, EXTRA**

Technical Data /
Application

Technical Data

Material	SSTC	SSTC TA-L
Density (DIN 28090-2) g/cm ³	1,35	1,3
Compressibility (ASTM F36J) - %	40	35
Recovery (ASTM F36J) - %	15	18
Residual stress @300°C (DIN 52913) - N/mm ²	45	45
Cold compressibility (DIN 28090-2) - %	39	30-40
Hot creep @300°C (DIN 28090-2) - %	2	<5
Tightness (DIN 3535-6) - mg/(sxm)	<0,1	<0,01

The specified data are for gasket material of 2mm thickness

Dimensions(mm): 1000x1000, 1500x1500
Thickness(mm): 1,0, 1,5, 2,0, 3,0, 4,0

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

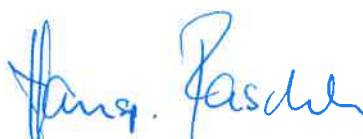
Remarks **None**

Valid until **2020-06-15**

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File No. **XI.B.03**

Hamburg, 2015-04-29



Hanspeter Raschle



Hagen Markus

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Technical Data

Material	MST	EXTRA
Density (DIN 28090-2) - g/cm ³	1,3	1,2
Compressibility (ASTM F36 J) - %	45	40
Recovery (ASTM F36 J) - %	15	10
Residual stress @ 300°C (DIN 52913) - N/mm ²	>45	45
Cold compressibility (DIN 28090-2) - %	42	40
Hot creep @ 300°C (DIN 28090-2)	2.5	2.5
Tightness (DIN 3535-6) - mg/(mxs)	<0,01	<0,25

The specified data are for gasket material of 2mm thickness

Dimensions(mm): 1000x1000, 1500x1500
Thickness(mm): 1,00, 1,50, 2,00, 3,00, 4,00

Application

- Ship's piping systems excluding 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.

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