

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. 94 611 - 10 HH

Company Frenzelit-Werke GmbH & Co. KG

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 2015-06-15

File No. XI.B.03

Germanischer Lloyd

Hamburg, 2010-06-23

Two handwritten signatures are present. The first signature is 'Hanspeter Raschle' and the second is 'Hagen Markus'. Both signatures are written in black ink and are positioned above their respective printed names.

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.

Germanischer Lloyd

Hamburg, 2010-06-23

Handwritten signature of Hanspeter Raschle in black ink.

Hanspeter Raschle

Handwritten signature of Hagen Markus in black ink.

Hagen Markus