

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. **94 610 - 10 HH**

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

Product **Compressed Non-Asbestos Fibre Flat Gasket with and without Steel - Wiremesh Reinforcement**

Type **novapress® UNIVERSAL, BASIC, FLEXIBLE/815, MULTI II, 280, 850**
novatec® PREMIUM XP, PLUS - novaform® SK

Technical Data / Application **Technical Data**
Refer to page 2.

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.

Approval Standard **DIN 86076:2007, ASTM F36, F152, 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 acc. To standards referenced above.**
- Audit report , Data sheets
- Asbestos-Free statement 12/2010

Remarks **None**

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File No. **XI.B.03**
Hamburg, 2015-04-29



Hanspeter Raschle



Hagen Markus

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Technical Data Material

	novapress®		
	UNIVERSAL	BASIC	FLEXIBLE/815
Density (DIN 28090-2) - g/cm ³	1,80	1,70	1,5
Compressibility (ASTM F36J) - %	6	6	10
Recovery (ASTM F36J) - %	60	55	64
Residual stress @300°C (DIN 52913) - N/mm ²	25	18	19
Cold compressibility (DIN 28090-2) - %	6	8	9
Hot creep @200°C (DIN 28090-2) - %	5,5	22	16
Tightness (DIN 3535-6) - mg/(sxm)	<0,1	<0,1	< 0,05

The specified data are for gasket material of 2mm thickness

Material	novapress®		novatec®		novaform®
	MULTI II	280	PREMIUM XP	PLUS	SK
Density (DIN 28090-2) - g/cm ³	1,5	1,7	1,74	1,63	1,9
Compressibility (ASTM F36 J) - %	7	7	6	10	20
Recovery (ASTM F36 J) - %	60	55	60	58	32
Residual stress @ 300°C (DIN 52913) - N/mm ²	22	15	30	30	40
Cold compressibility (DIN 28090-2) - %	6	8	6	8	19
Hot creep @ 200°C (DIN 28090-2)	10	24	8	8	3
Tightness (DIN 3535-6) - mg/(mxs)	<0,1	<0,025	< 0,05	---	---

The specified data are for gasket material of 2mm thickness

Material	novapress®
	850
Density (DIN 28090-2) - g/cm ³	1,25
Compressibility (ASTM F36J) - %	35
Recovery (ASTM F36J) - %	65
Residual stress @300°C (DIN 52913) - N/mm ²	--
Cold compressibility (DIN 28090-2) - %	--
Hot creep @200°C (DIN 28090-2) - %	--
Tightness (DIN 3535-6) - mg/(sxm)	<0,001

The specified data are for gasket material of 2mm thickness

Dimensions(mm): 1000x1500, 1500x1500, 3000x1500
Thickness(mm): 0,30, 0,50, 0,75, 1,00, 1,50, 2,00, 3,00, 4,00

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