

novapress® FLEXIBLE/815

The adaptable high-pressure
gasket with **excellent**
oil resistance.



Material profile

The larger proportion of nitrile butadiene rubber (NBR) than normal combined with aramide fibres gives novapress® FLEXIBLE/815 the following special properties:

- Superior oil resistance
- Minimum swelling in oils and fuels
- Ideal adaptability
- Lowest gas leakage at minimum surface pressure

Identification colour: green/natural colour

Application areas

novapress® FLEXIBLE/815 is the ideal choice for use in "light" flange structures as well as for all applications where particularly good oil resistance is a high priority. Furthermore novapress® FLEXIBLE/815 provides outstanding tightness even under low surface pressure conditions.

- Gas and water supply
- Plant engineering and equipment manufacturing
- Pipeline construction

Good for people and the environment

Frenzelit has obtained certification that the company complies with the requirements of both ISO/TS 16949 and ISO 14001. This means complete transparency in all areas and a high degree of security for our customers.

Do you have any questions about your application? The gasket information service will help you:

gaskets@frenzelit.de

GASKETS

TECHNICAL TEXTILES

EXPANSION JOINTS

INSULATION

NEW MATERIALS



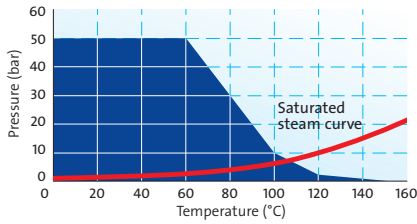
creating
hightech
solutions

Technical information about novapress® FLEXIBLE/815

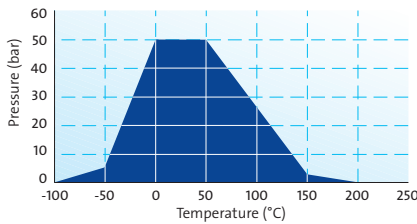
Recommendations for use

according to the pressure and temperature

Water/steam



Other Media*

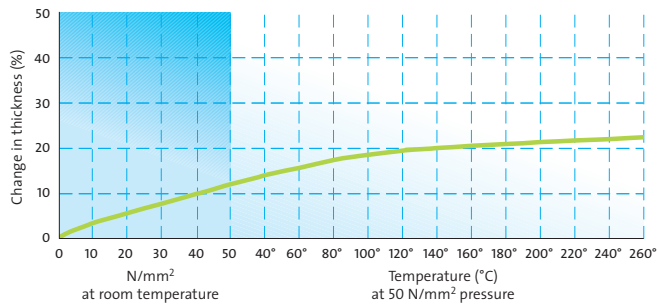


The temperature and pressure recommendations in the graphs apply to gaskets with a thickness of 2.0 mm and smooth flanges. Higher stresses are possible when thinner gaskets are used!
*Example for most common other media. Exact data for specific individual cases are available in the Frenzelit novaDISC programme or contact our application engineering specialists.

Warranty exclusion

In view of the variety of different installation and operation conditions and application and process engineering options, the information given in this prospectus can only provide approximate guidance. There is as a result no basis for warranty claims.

Deformation under temperature 2.0 mm



Material data

General data

Binders	NBR
Approvals	DVGW, SVGW, BAM (up to max. 75°C/100 bar), HTB
Colour	one side green, one side natural coloured
Anti-stick coating	non standard
Sheet size and thickness tolerance	according DIN 28 091-1

Physical properties

	Standard	Unity	Value*
Gasket thickness 2.0 mm			
Density	DIN 28 090-2	[g/cm ³]	1.50
Tensile strength	DIN 52 910	[N/mm ²]	26
longitudinal		[N/mm ²]	9
transverse	DIN 52 913	[N/mm ²]	30
Residual stress $\sigma_{dE/16}$		[N/mm ²]	19
175 °C		[N/mm ²]	19
300 °C			
Compressibility	ASTM F 36 J	[%]	10
Recovery	ASTM F 36 J	[%]	64
Cold compressibility ϵ_{K5W}	DIN 28 090-2	[%]	9
Cold recovery ϵ_{KRW}	DIN 28 090-2	[%]	4
Hot creep $\epsilon_{WSW/200}$	DIN 28 090-2	[%]	16
Hot recovery $\epsilon_{WRW/200}$	DIN 28 090-2	[%]	2.5
Recovery R	DIN 28 090-2	[mm]	0.050
Specific leakage rate	DIN 3535-6	[mg/(s·m)]	0.050
Specific leakage rate $\lambda_{2,O}$	DIN 28 090-2	[mg/(s·m)]	0.020
Fluid resistance	ASTM F 146		
ASTM IRM 903	5h/150°C		
Weight change		[%]	9
Thickness increase		[%]	3
ASTM Fuel B	5h/23°C		
Weight change		[%]	11
Thickness increase		[%]	5
Leachable Chloride content	FZT PV-001-133	[ppm]	≤ 150

* Mode (typical value)

Product data

- Dimensions in mm: 1000 x 1500
1500 x 1500
3000 x 1500
- Thicknesses in mm: 0.3/0.5/0.75/1.0/1.5/2.0/3.0/4.0
- Further dimensions and thicknesses are available on request

GASKETS

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EXPANSION JOINTS

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 **Frenzelit**

creating
hightech
solutions

novapress[®] FLEXIBLE/815

Material profile:

- Gasket material highly resistant to oils and fuels with extraordinary tightness, excellent adaptability and elasticity

Typical applications:

- gas and water supply
- plant and apparatus construction
- pipeline construction

Supply data:

- Sheet sizes in mm: 1000x1500 / 1500x1500 / 3000x1500
- Thickness in mm: 0.30 / 0.50 / 0.75 / 1.00 / 1.50 / 2.00 / 3.00 / 4.00
- Special sheet sizes upon request
- Other thicknesses upon request

General data	Binders:	NBR			
	Approvals:	DVGW / SVGW / BAM (max. 75°C / 100 bar) / HTB / GL			
	Anti-stick coating:	non standard			
	Colour:	one side green, one side natural coloured			
	Sheet size and thickness tolerance:	acc. DIN 28 091-1			
Physical properties (Gasket thicken. 2.00 mm)	Property	Standard	Unity	Value *	
		Density	DIN 28 090-2	[g/cm ³]	1.50
	Tensile strength	DIN 52 910	longitudinal	[N/mm ²]	26
			transverse	[N/mm ²]	9
	Residual stress $\sigma_{dE/16}$	DIN 52 913			
			175 °C	[N/mm ²]	30
			300 °C	[N/mm ²]	19
	Compressibility	ASTM F 36 J	[%]	10	
	Recovery	ASTM F 36 J	[%]	64	
	Cold compressibility ϵ_{KSW}	DIN 28 090-2	[%]	9.0	
	Cold recovery ϵ_{KRW}	DIN 28 090-2	[%]	4.0	
	Hot creep $\epsilon_{WSW/200}$	DIN 28 090-2	[%]	16.0	
	Hot recovery $\epsilon_{WRW/200}$	DIN 28 090-2	[%]	2.5	
	Recovery R	DIN 28 090-2	[mm]	0.050	
	Specific leakage rate	DIN 3535-6	[mg/(m·s)]	0.050	
	Specific leakage rate $\lambda_{2,0}$	DIN 28 090-2	[mg/(m·s)]	0.020	
	Fluid resistance	ASTM F 146			
	<u>ASTM IRM903</u>	5h/150 °C			
	Weight change		[%]	9	
	Thickness increase		[%]	3	
	<u>ASTM Fuel B</u>	5h/23 °C			
	Weight change		[%]	11	
	Thickness increase		[%]	5	
	Leachable Chloride content	FZT PV-001-133	[ppm]	≤ 150	

* = Mode (typical value)

Issue: 07.10

Modifications: 16

Supersedes all prior versions

The technical data stated has been determined with standard material under laboratory conditions. With the variety of installation and operating conditions no guarantee claim can be inferred regarding the behaviour of a flanged joint.

We reserve the right to product changes which serve the purpose of technical progress.