

# novapress® UNIVERSAL

The all-round high-pressure  
gasket for **higher technical  
requirements.**

**Frenzelit**

**novapress**

**Frenzelit**

**UNIVERSAL**

GASKETS

TECHNICAL TEXTILES

EXPANSION JOINTS

INSULATION

NEW MATERIALS

## Material profile

The balanced raw material combination, consisting of high-quality aramide fibres and special functional fillers bonded with nitrile butadiene rubber (NBR), gives novapress® UNIVERSAL the following special properties:

- **Good tensile strength**
- **Excellent stress relaxation**
- **Very low gas leakage**
- **Very good oil resistance**

Identification colour: green

## Application areas

novapress® UNIVERSAL is the ideal choice for use under higher temperature and pressure conditions as well as with uncritical gaseous and liquid media.

- **Pipeline construction**
- **Chemical industry**
- **Plant engineering, machine and equipment manufacturing**
- **Beverage and food industry**

## 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](mailto:gaskets@frenzelit.de)



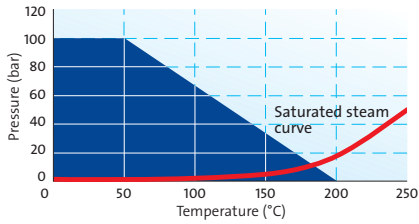
**creating  
hightech  
solutions**

# Technical information about novapress® UNIVERSAL

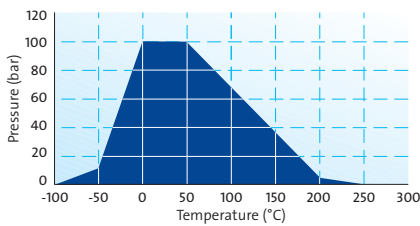
## Recommendations for use

according to the pressure and temperature

### Water/steam



### Other Media\*



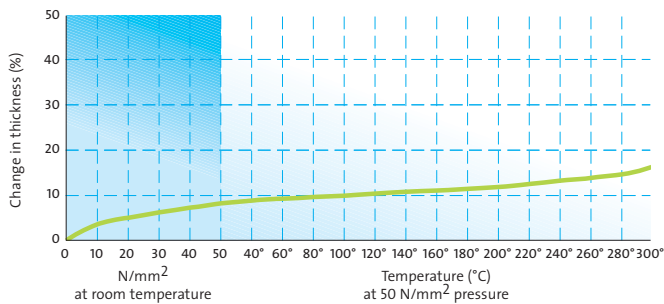
The temperature and pressure recommendations in the graphs apply to gaskets with a thickness of 2.0 mm and smooth flanges. Higher stresses are possible when thinner gaskets are used!

\*Example for the 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, HTB, KTW, WRAS, BAM (up to max. 60°C/130 bar), TA Luft
Colour	both sides light-green
Anti-stick coating	both sides PTFE
Sheet size and thickness tolerance	according to DIN 28 091-1

### Physical properties

	Standard	Unity	Value*
Gasket thickness 2.0 mm			
Density	DIN 28 090-2	[g/cm <sup>3</sup> ]	1.80
Tensile strength	DIN 52 910		
longitudinal		[N/mm <sup>2</sup> ]	27
transverse		[N/mm <sup>2</sup> ]	10
Residual stress $\sigma_{dE/16}$	DIN 52 913		
175 °C		[N/mm <sup>2</sup> ]	39
300 °C		[N/mm <sup>2</sup> ]	25
Compressibility	ASTM F 36 J	[%]	6
Recovery	ASTM F 36 J	[%]	60
Cold compressibility $\epsilon_{K5W}$	DIN 28 090-2	[%]	6
Cold recovery $\epsilon_{KRW}$	DIN 28 090-2	[%]	3
Hot creep $\epsilon_{WSW/200}$	DIN 28 090-2	[%]	5.5
Hot recovery $\epsilon_{WRW/200}$	DIN 28 090-2	[%]	2
Recovery R	DIN 28 090-2	[mm]	0.040
Specific leakage rate	DIN 3535-6	[mg/(s·m)]	≤ 0.100
Specific leakage rate $\lambda_{2,0}$	DIN 28 090-2	[mg/(s·m)]	0.100
Fluid resistance	ASTM F 146		
ASTM IRM 903	5h/150°C		
Weight change		[%]	6
Thickness increase		[%]	2
ASTM Fuel B	5h/23°C		
Weight change		[%]	7
Thickness increase		[%]	6
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

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