

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

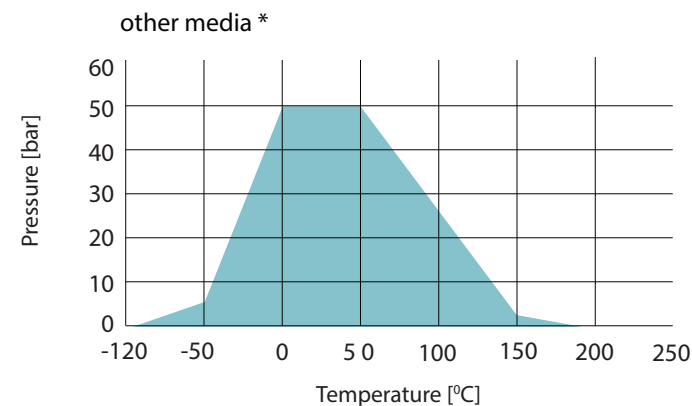
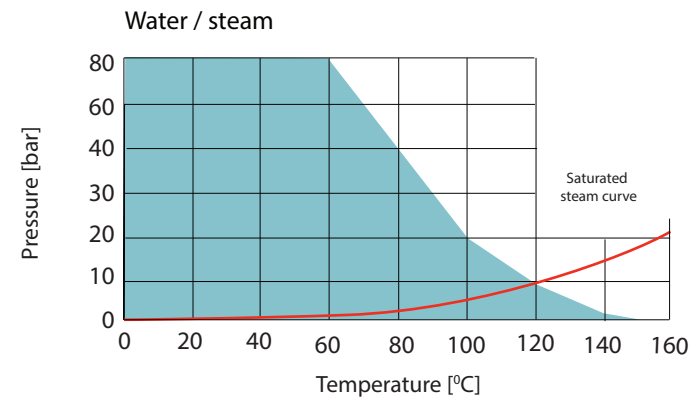
Application areas

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

Recommendations for use

according to pressure and temperature

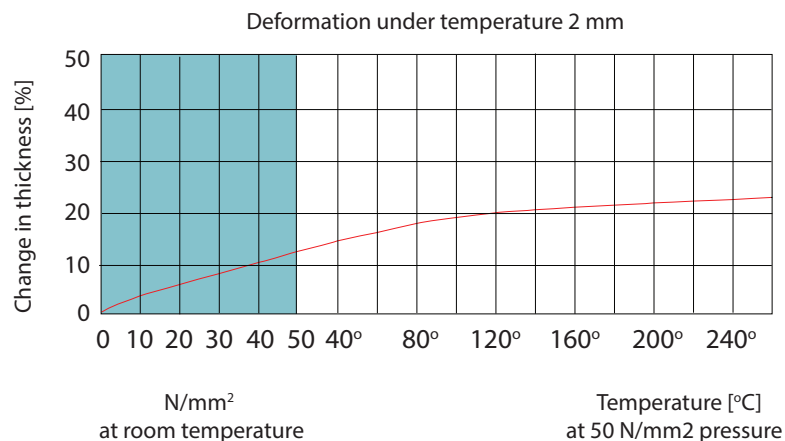


The temperature and pressure recommendations in the graphs apply to gaskets with a thickness of 2.0 mm and smooth flanges. Higher stresses are possible when thinner gaskets are used!

*Example for most common other media. Exact data for specific individual cases are available, contact our application engineering specialists.

Warranty exclusion

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



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

General data

Binders NBR	DVGW, SVGW, BAM
Approvals	one side green, one side natural coloured
Colour	non standard
Anti-stick coating	according DIN 28 091-1
Sheet size & thickness tolerance	

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			
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
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 $\lambda_{2,0}$	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)			