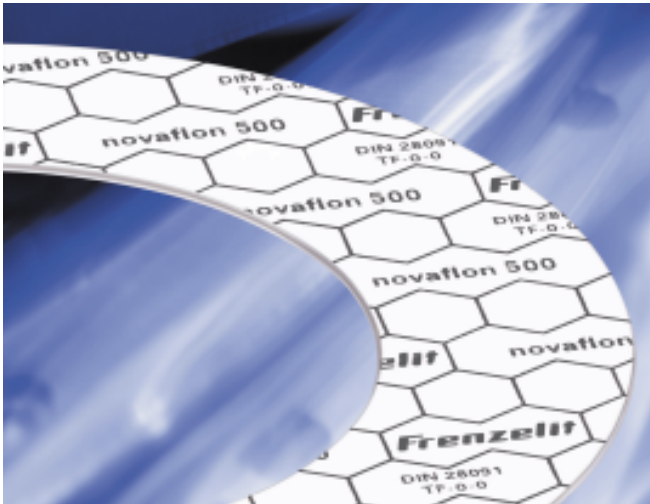


# novaflon® 500 - The PTFE gasket for industrial applications



## Material profile

100 % multi-directional expanded gasket material made of virgin PTFE with universal chemical resistance (pH 0-14). Due to its unique production process novaflon® 500 shows an extremely good resistance to creep and cold flow.

## Typical applications

- Pharmaceutical industry
- Food and beverage industry
- Process industry especially against aggressive media in glass lined flanges and FRP equipment or reactors
- Suitable in all applications where due to the construction only limited bolt forces are available or flange irregularities have to be compensated
- Temperature range -240°C to +270°C
- Pressure from vacuum to 200 bar

## Excellent handling properties

Due to its material concept novaflon® 500 is so soft that it can be processed even with usual household scissors or knives.

## Material characteristics

### General Data

Approvals	TA Luft, FDA
Colour	white
Sheet sizes and thickness tolerance	according to 28091-1

### Physical properties

	Standard	Unity	Value *
Gasket thickness 2 mm			
Identification	DIN 28 091-3		TF - 0 - 0
Density	DIN 28 090-2	[g/cm <sup>3</sup> ]	0.90
Tensile strength	DIN 52 910	[N/mm <sup>2</sup> ]	26
Residual stress $\sigma_{dE/16}$ 150 °C, 30 N/mm <sup>2</sup> , 16 h	DIN 52 913	[N/mm <sup>2</sup> ]	18
Compressibility	ASTM F36 J	[%]	50
Recovery	ASTM F36 J	[%]	10
Cold compressibility $\epsilon_{KSW}$	DIN 28 090-2	[%]	40
Cold recovery $\epsilon_{KSW}$	DIN 28 090-2	[%]	3
Hot creep $\epsilon_{WSW/150}$	DIN 28 090-2	[%]	15
Hot recovery $\epsilon_{WSW/150}$	DIN 28 090-2	[%]	2
Specific leakage rate	DIN 3535-6	[mg/(m·s)]	≤ 0.015
Specific leakage rate acc. TA Luft Helium, 1 bar, 30 MPA	VDI 2440/TA Luft	[mbar·l/(s·m)]	1.2·10 <sup>-6</sup> * = Mode (typical value)

## Product data

- Dimensions in mm: 1500 x 1500
- Thicknesses in mm: 0.5 to 9.0
- Further dimensions and thicknesses are available on request

## Quality Management

ISO/TS 16949

## Environmental Management

ISO 14001

Do you have any questions about your application?  
The gasket information service will help you:  
[gaskets@frenzelit.de](mailto:gaskets@frenzelit.de)

All previous versions of this prospectus cease to apply. Subject to technical amendment.

FZ/2/06.06.001/FZ

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