

# novaone<sup>®</sup> BLUE

Fiber gasket based on EPDM

Key product as a PFAS-free alternative in PTFE application areas



**DICHTUNGEN**  
GASKETS

**ISOLATIONEN**  
INSULATION

**KOMPENSATOREN**  
EXPANSION JOINTS

**HEIZSYSTEME**  
HEATING SYSTEMS

# HIGH-QUALITY PFAS-FREE REPLACEMENT PRODUCT with high chemical resistance

**novaone® BLUE**  [mm] | 0.5 | 0.75 | 1.0 | 1.5 | 2.0 | 3.0

novaone® BLUE is a gasket material based on high-performance synthetic fibers and functional fillers bonded with EPDM.

## ADVANTAGES:

- ✓ Long lifespan
- ✓ Enables extended service life
- ✓ Suitable for use in highly polar solvents
- ✓ Suitable for the food industry (CIP process)
- ✓ Good leakage performance at relatively low surface pressure levels
- ✓ PFAS-free gasket non-stick coating
- ✓ Excellent resistance to acids and alkalis
- ✓ Featuring Gasket Code Technology standard for full traceability
- ✓ Reliable performance at application temperatures ranging from -100 °C to 260 °C



## Perfect for a variety of applications – examples



**Chemical industry**

- 50% sulphuric acid at 100 °C or oxidative substances (e.g. hydrogen peroxide)



**Alkaline electrolysis**

- 40% potassium hydroxide solution at 100 °C
- Hydrogen applications:



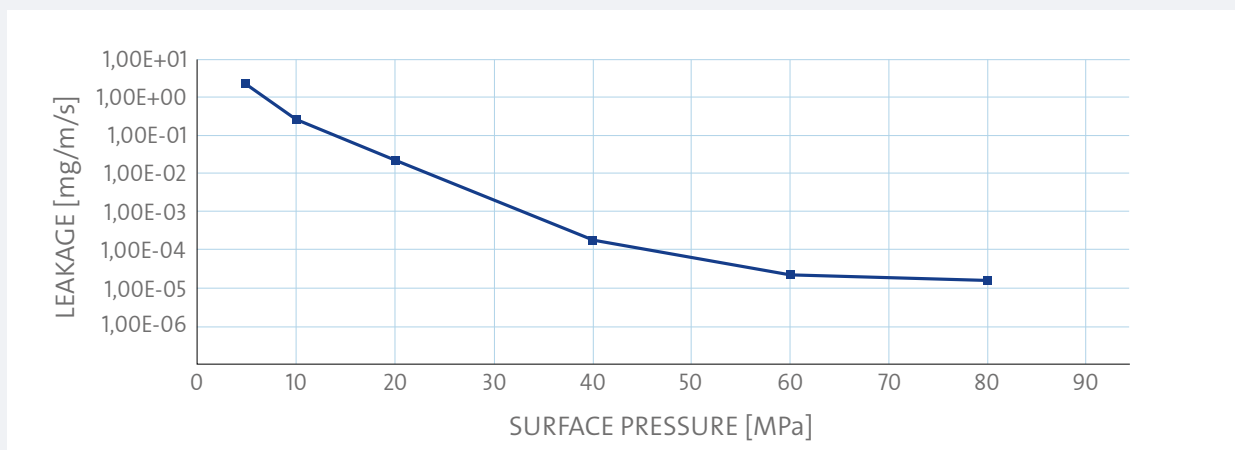
**Food Industry**

- CIP process

Please feel free to contact our application engineering specialists to learn more about additional applications.

## novaone® BLUE leakage curve

Ring dimension 92 x 49 x 2 mm, 40 bar helium



# TECHNICAL DATA

## Notes and application recommendations

### Material data

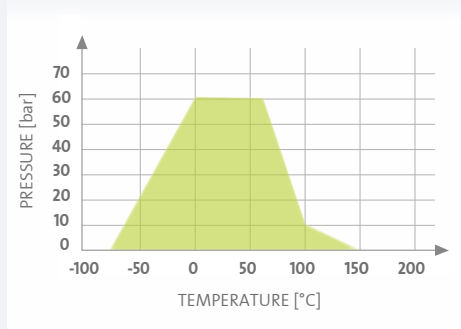
General information			novaone® BLUE	
Approvals, tests			FDA, EG 1935/2004, TA Luft (German Clean Air Act)	
Color			Blue	
Printing			Dark blue honeycomb imprint	
Treatment			Double-sided non-stick coating	
Product data (tolerances acc. to DIN 28091-1)				
Dimensions			[mm] 1000 x 1500 / 1500 x 1500 / 3000 x 1500	
Thicknesses			[mm] 0.5 / 0.75 / 1.0 / 1.5 / 2.0 / 3.0	
Physical properties (modal values)				
Thickness			[mm]	2.0
Density			[g/cm <sup>3</sup> ]	1.4
Residual stress			[N/mm <sup>2</sup> ]	22
Compressibility			[%]	16
Recovery			[%]	58
Specific leakage rate			[mg/m/s]	0.01

*Changes to technical data reserved as part of product improvement.*

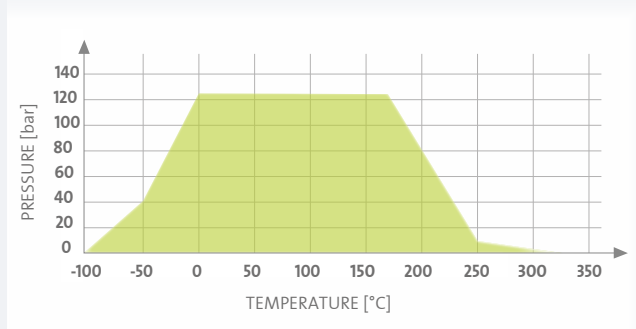
### Application recommendations

Depending on pressure and temperature levels

#### Chemically demanding media\*1



#### Other media\*2



#### Notes on application recommendations

The temperature and pressure recommendations in the graphs apply to 2.0 mm thick gaskets that are used with raised face flanges.

Higher stresses are possible when thinner gaskets are used! Consequently, the details shown here should be considered cautious estimates rather than specific operational limits.

\*1 e.g. sulphuric acid (30%)

\*2 Example for the most common other media. Precise data for individual cases can be obtained from the Frenzelit novaDISC program or by contacting our application engineering specialists.

Use our software for more complex gasket designs: [www.novaDISC.de](http://www.novaDISC.de)



# OUR COMMITMENT

## to people and the environment.

As a company with a rich tradition, we care about long-term success and the satisfaction of our customers. Quality is always a top priority for us – as is our commitment to the environment, society and our employees.

We also pride ourselves on always considering our customers' present and future needs, something that is apparent in our application consulting, training seminars and installation services.

A development partnership with us is an excellent opportunity for you to optimize products that are already a success – and a great way to get your new developments to the market even faster. We help you modify products or support you in implementing innovative material concepts – and create real added value for you.



### GASKET MATERIALS

-  **novapress®**  
approx. -100 to 200 °C
-  **novatec®**  
approx. -100 to 250 °C
-  **novaone®**  
approx. -100 to 260 °C
-  **novafilon®**  
approx. -270 to 260 °C
-  **novaphit®**  
approx. -270 to 550 °C
-  **novamica®**  
approx. -200 to 1000 °C

*The temperature data refer to use with non-critical media.*

### INSULATION MATERIALS

-  **isoplan®**  
approx. -100 to 1100 °C



**novadisc.de**  
ONLINE Design Software

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### PARTNERS

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Your Specialist Partner