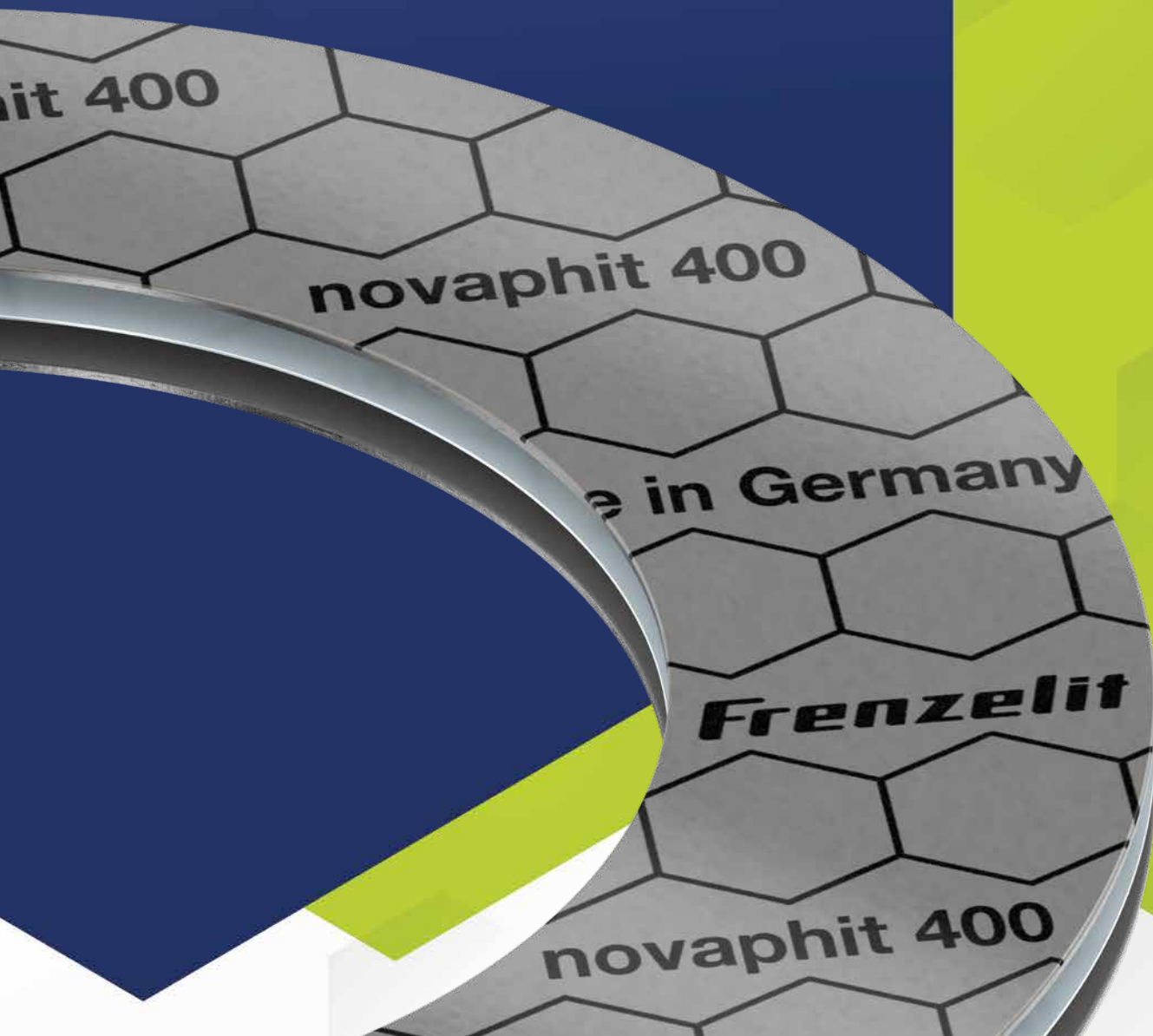


# novaphit<sup>®</sup> 400

The high-performance graphite gasket

Flat metal reinforced – for OEM  
and process industry applications



**DICHTUNGEN**  
GASKETS

**ISOLATIONEN**  
INSULATION

**KOMPENSATOREN**  
EXPANSION JOINTS

**HEIZSYSTEME**  
HEATING SYSTEMS

# HIGH-QUALITY PURE GRAPHITE

## with an acid-resistant stainless steel insert

**novaphit® 400**  [mm] | 0.5 | 0.75 | 1.00 | 1.50 | 2.00 | 3.00

novaphit® 400 is a gasket sheet made from expanded graphite with an acid-resistant chrome-nickel steel flat metal insert (material no.: 1.4404 / AISI 316 L).

### ADVANTAGES:

- ✓ Very simple processing even with narrow gasket widths
- ✓ The flat metal insert prevents the risk of contact corrosion due to projecting metal
- ✓ No delamination during punching or plotting
- ✓ Improved handling compared to graphite gaskets without reinforcement
- ✓ TA Luft suitability for thicknesses 0.5 and 0.75 mm
- ✓ Reliable performance for application temperatures up to 500 °C
- ✓ Insensitive to changing loads
- ✓ High adaptability to flange unevenness
- ✓ Virtually no hot creep



**novaphit® 400 with XP technology**  [mm] | 0.5 | 0.75  
for higher performance

Thin thicknesses of 0.5 and 0.75 mm with a sheet dimension of 1000 x 1000 mm can optionally be equipped with XP technology. XP technology paves the way for a new generation of higher-performance gaskets for complex and intricate geometries like those found in many OEM applications.



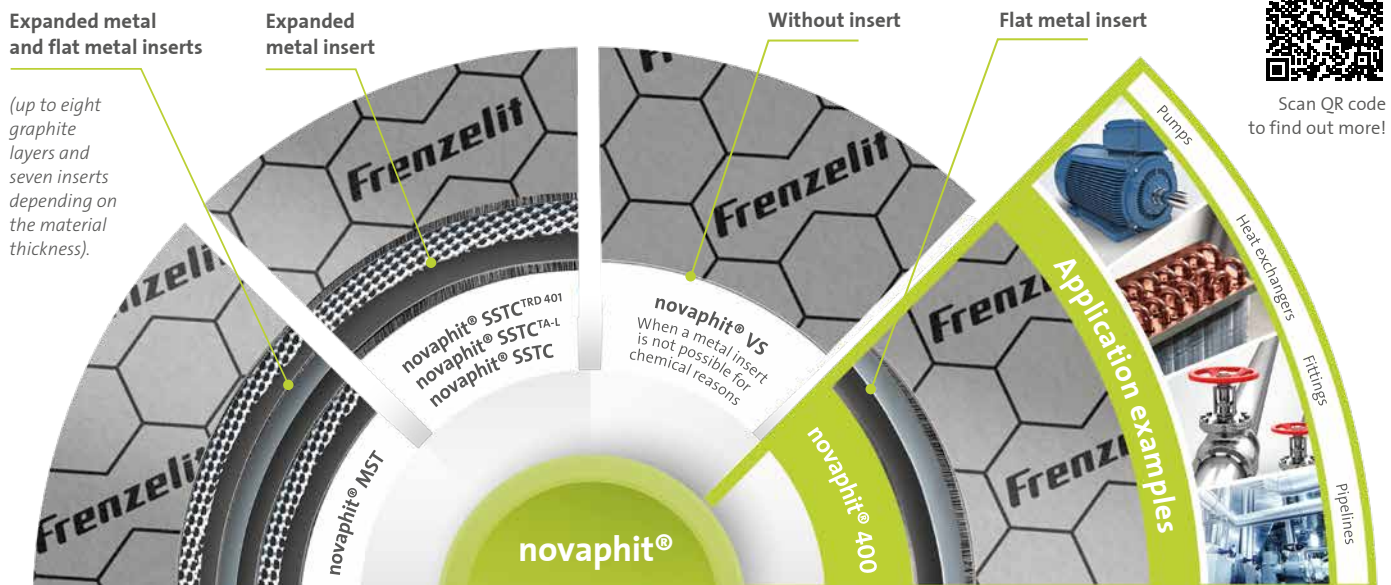
### ADVANTAGES:

- ✓ Optimal anti-stick properties enable quick gasket replacement and protect the flange surfaces
- ✓ Increased oxidation resistance offers better long-term performance



Please read the complete brochure for novaphit® SSTC, novaphit® SSTC<sup>TA-L</sup> and novaphit® MST for detailed information about XP technology for novaphit® gaskets.

## The novaphit® family at a glance



Scan QR code to find out more!

# TECHNICAL DATA

## Notes and recommendations for use

### Material data

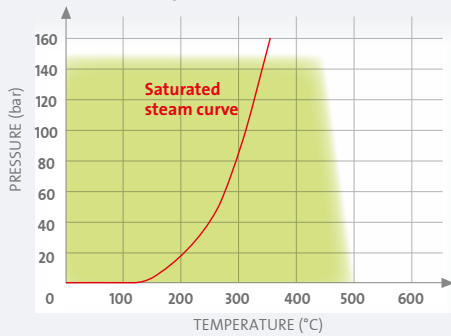
General data	novaphit® 400	novaphit® 400 with XP technology
Approvals, tests	TA Luft (for thicknesses 0.5 and 0.75 mm)	TA Luft
Color	graphite gray	graphite gray
Printing	black honeycomb brand	blue honeycomb brand
Material of metal insert	1.4404	1.4404
Product data (tolerances acc. to DIN 28091-1)		
Dimensions	[mm] 1000 x 1000 / 1500 x 1500 (≥ 1.00 mm)	[mm] 1000 x 1000
Thicknesses	[mm] 0.5 / 0.75 / 1.0 / 1.5 / 2.0 / 3.0	[mm] 0.5 / 0.75
Physical properties (typical values)		
Thickness	[mm] 0.50 0.75 1.00 2.00	0.50 0.75
Graphite purity	DIN 51903	≥ 98
Density	DIN 28090-2	1.80 1.45 1.40 1.20
Residual stress	300°C DIN 52913	≥ 45
Compressibility	ASTM F 36 J	25 38 40 45
Recovery	ASTM F 36 J	23 17 15 12
Specific leakage rate	DIN 3535-6	0.03 0.04 0.05 0.08
Oxidation value	670°C DIN 28090-2	≤ 4
Tensile strength transverse	DIN 52910	40 27 25 13
Total chloride content	DIN 28090-2	≤ 50
Leachable chloride content	PV01605	≤ 20
Total fluoride content	DIN 51723	≤ 50

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

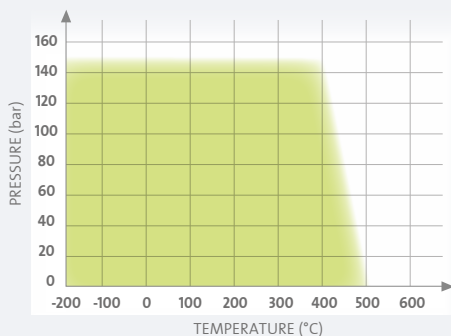
### Recommendations for use

Depending on pressure and temperature levels

#### Water/water vapor

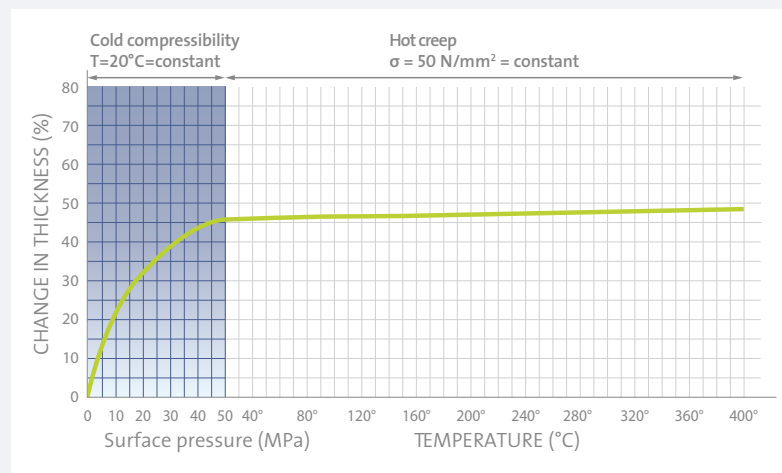


#### Other media\*



### Setting behavior

Temp-Test 50 MPa / 20 - 400 °C



#### Note about the recommendations for use

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! The information provided should therefore be considered cautious estimates rather than specific operational limits.

\* 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.

# 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.

The Frenzelit gasket division is certified according to:



#### GASKET MATERIALS

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

#### INSULATION MATERIALS

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



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#### PARTNERS

Frenzelit is here to serve you in over **65 countries** around the world. Find your contact in our global network of subsidiaries, sales, service and logistics partners

