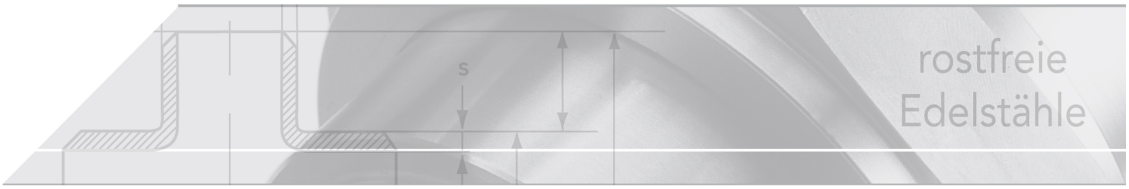
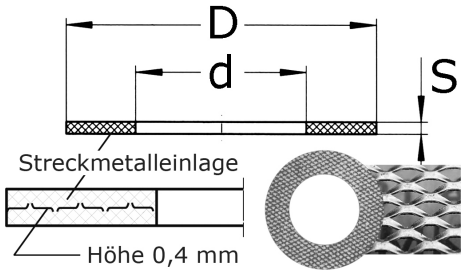


gasket, non-stick

short name: FD.FSG*

novaphit® SSTC
with expanded metal insert
DIN 2690/ EN 1514-1 type IBC

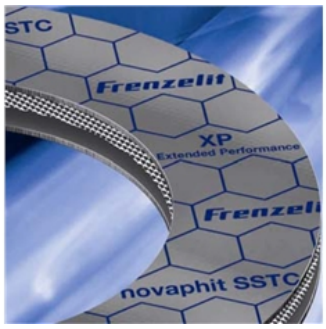


technical product sheet

DN	D	d	S	PN	kg	Art.-Nr.
15	51	22	2,0	10-40	0,004	FD-021-FS0
20	61	27	2,0	10-40	0,000	FD-026-FS0
25	71	34	2,0	10-40	0,000	FD-033-FS0
32	82	43	2,0	10-40	0,012	FD-042-FS0
40	92	49	2,0	10-40	0,000	FD-048-FS0
50	107	61	2,0	10-40	0,016	FD-060-FS0
65	127	77	2,0	10-40	0,021	FD-076-FS0
80	142	89	2,0	10-40	0,025	FD-088-FS0
100	162	115	2,0	10+16	0,030	FD-114-FS0
125	192	141	2,0	10+16	0,035	FD-139-FS0
150	218	169	2,0	10+16	0,000	FD-168-FS0
200	273	220	2,0	10+16	0,058	FD-219-FS0
250	328	273	2,0	10	0,077	FD-273-FSA
300	378	325	2,0	10	0,077	FD-323-FSA
350	438	368	2,0	10	0,000	FD-355-FSA
400	489	407	2,0	10	0,000	FD-406-FSA
450	539	458	2,0	10	0,000	FD-457-FSA
500	594	520	2,0	10	0,000	FD-508-FSA

available material: Graphit

Flanges › other › gaskets › graphite › novaphit® SSTC/XP



Expanded metal graphite gasket with Extended Performance technology

Graphite gasket material with an insert made of acid-resistant stainless steel (1.4404, AISI 316 L) for the highest pressure and temperature requirements. Excellent media resistance and high safety margins even under alternating loads characterize its quality.

The high-quality novaphit® SSTC graphite gaskets can be finished with XP technology as an option. This technology involves inorganic deep passivation of the pure graphite based on nanotechnology, which significantly increases its efficiency.

Long-term, temperature-resistant, non-stick properties

For the first time, the XP finish prevents graphite from adhering to the sealing surface at temperatures above 200 °C. Conventional non-stick coatings are normally based on organic substances (e.g. resins) that impregnate the surface of the graphite when the right amounts are applied. The effectiveness of these organic non-stick coatings is limited due to media and temperature resistance restrictions (decomposition of organic components over 200 °C).

In contrast, the non-stick finish of novaphit® with XP technology is fully effective over the entire application temperature range of a graphite gasket and in connection with the typical media to be sealed. The long-term, temperature-resistant nonstick properties enable gaskets to be replaced without leaving any residue even on bare sealing surfaces.

Oxidation resistance

More stable sealing properties and longer service lives through higher oxidation resistance. The XP technology also enables a significant improvement of the oxidation resistance of the graphite. High-quality graphite gaskets in the novaphit® family possess a number of strengths.

Accelerated by high temperatures and the effects of oxygen, the graphite has a fundamental tendency to oxidize, though, and thus weaken the graphite due to the associated loss of mass in the seal.
For this reason, the maximum application temperature is limited to 550 °C.
Depending on the medium, though, long-term oxidation mass losses can already be measured starting at 450 °C.
This is where the XP technology focuses: due to deep passivation of the graphite with the help of a specially developed, innovative new process, reaction with ambient oxygen or other oxidizing media slowed down substantially or shifted to a higher temperature level.

The advantages at a glance:

- Long-term non-stick properties throughout the entire application temperature range
- The elimination of mechanical cleaning processes increases the service life of the flanges
- Higher-quality seals since the effects of residue from old gaskets are avoided
- Stable sealing properties for a longer period of time due to higher oxidation resistance