Technical Data Sheet

Frenzelit

novaphit® SSTC^{TA-L}

Material profile:
- Graduated Gasket material of expanded graphite (purity 99 % min.) with an internal impregnation and an acid-proof expanded metal inlay made of chrom-nickel steel (material no. 1.4404 / AISI 316 L)
- High-qualified gasket material according TA-Luft

Typical applications:
Applications according TA-Luft
- petrochemical industry
- chemical industry
- apparatus and machine-building industries

Supply data
- Sheet sizes in mm: 1000 x 1000 / 1500 x 1500
- Thickness in mm: 1.0 / 1.6 / 2.0 / 3.0
- Special sheet sizes upon request
- Other thicknesses upon request

General data	Binders:	-		
	Approvals:	TA Luft / Firesafe (API607 / BS6755) / BAM (O_2: 200°C/130 bar) / DVGW / GL (Germanischer Lloyd)		
	Colour:	graphite		
	Printing:	platinium grey		
	Sheet sizes and thickness tolerance	according DIN 28 091-1		
	Property	**Standard**	**Unity**	**Value ***
Physical properties (Gasket thickn. 1.60 mm)	Identification	DIN 28 091-4		GR-10-I-1M-Cr
	Density	DIN 28 090-2	[g/cm³]	1.40
	Tensile strength	DIN 52 910		
	longitudinal		[N/mm²]	25
	transverse		[N/mm²]	10
	Residual stress $\sigma_{dE/16}$	DIN 52 913		
	300°C		[N/mm²]	> 45
	Compressibility	ASTM F 36 J	[%]	35
	Recovery	ASTM F 36 J	[%]	20
	Cold compressibility ε_{KSW}	DIN 28 090-2	[%]	30 - 40
	Cold recovery ε_{KRW}	DIN 28 090-2	[%]	3.5 - 5.0
	Hot creep $\varepsilon_{WSW/300}$	DIN 28 090-2	[%]	< 5
	Hot recovery $\varepsilon_{WRW/300}$	DIN 28 090-2	[%]	> 3
	Recovery R	DIN 28 090-2	[mm]	0.065
	Leakage TA Luft Flangetest 30 MPa, 300°C, 1 bar helium	VDI 2200	[mbar•l/(s•m)]	< 0.0001
	Blow-Out-Test	VDI 2200 (draft)		
	Class A (30 MPa, 60 bar, N_2)			passed
	Class B (10 MPa, 60 bar, N_2)			passed
	Class C (7,5 MPa, 60 bar, N_2)			passed
	Chloride content	DIN 28090-2	[ppm]	≤ 50

* = Mode (typical value)

Issue: 06.11

Modifications: 7

Supersedes all prior versions

The technical data stated has been determined with standard material under laboratory conditions. With the variety of installation and operating conditions no guarantee claim can be inferred regarding the behaviour of a flanged joint.
We reserve the right to product changes which serve the purpose of technical progress.

Frenzelit Werke GmbH · Postfach/P.O.Box 11 40 · 95456 Bad Berneck/Germany
Phone: +49 9273 72-0 · Fax: +49 9273 72-222 · E-Mail: info@frenzelit.de · Internet: www.frenzelit.com