Technical Data Sheet

Frenzelit

novaphit® MST

Material profile:
- Gasket material made of expanded graphite (purity 99,5 % min.) with an internal impregnation and acid proof flat- and expanded-metal inlays made of chrome-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
- nuclear power stations
- apparatus and machine-building industries

Supply data:
- Sheet sizes in mm: 1000x1000
- Thickness in mm: 1.5 / 2.0 / 3.0 / 4.0
- Special sheet sizes upon request
- Other thicknesses upon request

General data	Binders:	-		
	Approvals:	Firesafe (DIN EN ISO 10497 / API607 / BS6755) / BAM (O2: 200°C/130 bar) / TA Luft / DVGW / GL		
	Colour:	graphite		
	Printed:	platinum grey		
	Sheet size and thickness tolerance:	acc. DIN 28 091-1		
	Property	**Standard**	**Unity**	**Value ***
Physical properties (Gasket thickn. 2.00 mm)	Identification	DIN 28 091-4		GR-8-I-3-Cr
	Density	DIN 28 090-2	[g/cm³]	1.20
	Tensile strength	DIN 52 910		
	longitudinal		[N/mm²]	20
	transverse		[N/mm²]	19
	Residual stress $\sigma_{dE/16}$	DIN 52 913		
	300°C		[N/mm²]	≥ 47
	Compressibility	ASTM F 36 J	[%]	50
	Recovery	ASTM F 36 J	[%]	10
	Cold compressibility ε_{KSW}	DIN 28 090-2	[%]	45
	Cold recovery ε_{KRW}	DIN 28 090-2	[%]	3.5
	Hot creep $\varepsilon_{WSW/300}$	DIN 28 090-2	[%]	2.5
	Hot recovery $\varepsilon_{WRW/300}$	DIN 28 090-2	[%]	3.0
	Specific leakage rate	DIN 3535-6	[mg/(m·s)]	≤ 0.010
	Leakage TA Luft component testing 30 MPa, 300°C, 1 bar He	VDI 2200	[mbar·l/(s·m)]	≤ 0.0001
	Total Chloride content	DIN 28090-2	[ppm]	≤ 50
	Leachable Chloride content	FZT PV-001-133	[ppm]	≤ 20
	Total Fluoride and Chloride		[ppm]	≤ 100

* = Mode (typical value)

Issue: 07.10

Modifications: 1

Supersedes all prior versions

The technical data stated has been determined with standard material under laboratroy 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.

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