

novaphit® SSTC

Material profile:

- Gasket material made of expanded graphite (purity 99 % min.) with an expanded metal inlay made of chrome-nickel steel (material no. 1.4404 / AISI 316 L).

Typical applications:

- highest thermal and mechanical loads as well as frequently changing loads.
- saturated steam, superheated steam, heat carrier oils.

Supply data:

- Sheet sizes in mm: 1000x1000 / 1500x1500
- Thickness in mm: 1.0 / 1.5 / 2.0 / 3.0
- Special sheet sizes upon request
- Other thicknesses upon request

General data	Binders:	without organic binder		
	Approvals:	DVGW / BAM (max. 200 °C/130bar) / Fire Safe / GL		
	Anti-stick coating:	none		
	Colour:	grey		
	Sheet size and thickness tolerance:	acc. DIN 28 091-1		
Physical properties (Gasket thicken. 2.00 mm)	Property	Standard	Unity	Value *
	Identification	DIN 28 091-4		GR-10-I-1M-Cr
	Density	DIN 28 090-2	[g/cm³]	1.35
	Tensile strength	DIN 52 910		
	longitudinal		[N/mm²]	17
	transverse		[N/mm²]	8
	Residual stress $\sigma_{dE/16}$	DIN 52 913		
	175 °C		[N/mm²]	47
	300 °C		[N/mm²]	45
	Compressibility	ASTM F 36 J	[%]	40
	Recovery	ASTM F 36 J	[%]	15
	Cold compressibility ϵ_{KSW}	DIN 28 090-2	[%]	39.0
	Cold recovery ϵ_{KRW}	DIN 28 090-2	[%]	4.0
	Hot creep $\epsilon_{WSW/300}$	DIN 28 090-2	[%]	2.0
	Hot recovery $\epsilon_{WRW/300}$	DIN 28 090-2	[%]	3.5
	Recovery R	DIN 28 090-2	[mm]	0.070
	Specific leakage rate	DIN 3535-6	[mg/(m·s)]	≤ 0.100
	Specific leakage rate $\lambda_{2,0}$	DIN 28 090-2	[mg/(m·s)]	0.050
	Fluid resistance	ASTM F 146		
	ASTM IRM903	5h/150 °C		
	Weight change		[%]	30
	Thickness increase		[%]	6
	ASTM Fuel B	5h/23 °C		
	Weight change		[%]	30
	Thickness increase		[%]	6
	Chloride content	DIN 28 090-2	[ppm]	≤ 50

* = Mode (typical value)

Issue: 06.11

Modifications: 16

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.

Produktänderungen, die dem techn. Fortschritt dienen, behalten wir uns vor.