Technical Data Sheet

Frenzelit

novatec® PREMIUM XP

engineered graphite with Kevlar®

Material profile:
- Highly compressed gasket material with good stress relaxation, temperature resistance and with good ductility
- The main components are graphite and aramid fibres, bound with NBR
- State-of-the-art material which combines the advantages of graphite and aramid.

Typical applications:
- For the general and chemical industry
- Oils and fats, acids and alkalis, solvents, refrigerants, water, steam

Supply data:
- Sheet sizes in mm: 2000x1500
- Thickness in mm: 1.0 / 1.5 / 2.0 / 3.0
- Special sheet sizes upon request
- Other thicknesses upon request

General data	Binders:	NBR		
	Approvals:	DVGW / KTW / WRAS / W270 / VP401 / GL / BAM (max. 110°C / 130 bar) / TA Luft / SVGW EG Nr. 1935/2004		
	Colour:	royal blue		
	Branding:	honeycomb with Frenzelit		
	Anti-stick coating:	both sides A310 standard		
	Tolerances in thickness:	acc. DIN 28091-1		
Physical properties (Gasket thickn. 2.00mm)	**Property**	**Standard**	**Unity**	**Value ***
	Identification	DIN 28 091-2		FA - A 1 - O
	Density	DIN 28 090-2	[g/cm³]	1.74
	Tensile strength	DIN 52 910		
	longitudinal		[N/mm²]	20
	transverse		[N/mm²]	18
	Residual stress $\sigma_{dE/16}$	DIN 52 913		
	175°C		[N/mm²]	37
	300°C		[N/mm²]	30
	Compressibility	ASTM F 36 J	[%]	6
	Recovery	ASTM F 36 J	[%]	60
	Cold compressibility ε_{KSW}	DIN 28 090-2	[%]	6
	Cold recovery ε_{KRW}	DIN 28 090-2	[%]	3
	Hot creep $\varepsilon_{WSW/200}$	DIN 28 090-2	[%]	8
	Hot recovery $\varepsilon_{WRW/200}$	DIN 28 090-2	[%]	2
	Recovery R	DIN 28 090-2	[mm]	0.04
	Specific leakage rate	DIN 3535-6	[mg/(m·s)]	≤ 0.05
	Specific leakage rate $\lambda_{2,0}$	DIN 28 090-2	[mg/(m·s)]	≤ 0.05
	Fluid resistance	ASTM F 146		
	ASTM IRM903	5h/150°C		
	Weight change		[%]	8
	Thickness increase		[%]	5
	ASTM Fuel B	5h/23°C		
	Weight change		[%]	8
	Thickness increase		[%]	5
	Chloride content	FZT PV-001-133	[ppm]	≤ 50

* = Mode (typical value)

Issue: 02.12

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.

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