

novatec[®] HPN *engineered graphite with Kevlar[®]*

Material profile:

- High-performance graphite beater for increased demands and high temperatures
- The main components are graphite and aramid fibres, bound with NBR (vulcanized)
- stable, flexible, resistant to antifreezing agents, fuels and oils

Typical applications:

- Gaskets for engines, compressors, pumps, valve covers
- sealed joint for pipeline construction, for the plant and apparatus construction

Supply data:

- Sheet sizes in mm: 2000 x 1000 mm
- Thickness in mm: 1.0 bis 3.0 mm ± 7%
- Special sizes upon request
- Other thicknesses upon request

General data	Colour:	black		
	Surface:	both sides A310, with branding, optional with PTFE		
	Binders:	NBR		
	Approvals:	WRC		
	Identification:	DIN 28 091-2	FA - A 1 - O	
Physical properties (Gasket thickn. 1.50mm)	Property	Standard	Unity	Value *
	Density	DIN 28 090-2	[g/cm ³]	1.50
	Tensile strength	DIN 52 910		
	longitudinal		[N/mm ²]	9.0
	transverse		[N/mm ²]	7.5
	Residual stress $\sigma_{dE/16}$	DIN 52 913		
	175 °C / 16h / 50 N/mm ²			38
	175 °C / 16h / 25 N/mm ²			15
	Compressibility	ASTM F 36 J	[%]	15
	Recovery	ASTM F 36 J	[%]	30
	Fluid resistance	ASTM F 146		
	<u>ASTM IRM903</u>	5h/150 °C		
	Weight change		[%]	20
	Thickness increase		[%]	7
	<u>ASTM Fuel B</u>	5h/23 °C		
	Weight change		[%]	18
Thickness increase		[%]	6	
<u>Coolant/Water (50:50)</u>	5h/100 °C			
Weight change		[%]	25	
Thickness increase		[%]	6	

* = Mode (typical value)

Issue: 12.08

Modifications: 3

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 in a specific application.

We reserve the right to product changes which serve the purpose of technical progress.