

## novatec<sup>®</sup> HPN engineered graphite with Kevlar<sup>®</sup>

### 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:

- |                |   |           |                       |
|----------------|---|-----------|-----------------------|
| Rolls          | • 1000 or 2000 mm   | Thickness | • 0.3 bis 1.0 mm ± 7% |
| Outer diameter | • 700mm   |           |                       |
| Coils          | • from 150 to 2000mm wound on paper coils - inner diameter 100mm or 100mm |           |                       |
|                | • Special sizes upon request  |           |                       |

General data	Colour:	black			
	Surface:	without coating, with branding			
	Binders:	NBR			
	Approvals:	WRC			
	Identification:	DIN 28 091-2		FA - A 1 - O	
Physical properties (Gasket thickn. 0.80mm)	Property	Standard	Unity	Value *	
	Density	DIN 28 090-2	[g/cm <sup>3</sup> ]	1.50	
	Tensile strength	ASTM F 152	longitudinal	[N/mm <sup>2</sup> ]	9.0
			transverse	[N/mm <sup>2</sup> ]	7.5
	Residual stress $\sigma_{dE/16}$	DIN 52 913	175 °C / 16h / 50 N/mm <sup>2</sup>	[N/mm <sup>2</sup> ]	45
			175 °C / 16h / 25 N/mm <sup>2</sup>	[N/mm <sup>2</sup> ]	21
	Compressibility	ASTM F 36 J	[%]	15	
	Recovery	ASTM F 36 J	[%]	30	
	Creep / Relaxation 150 °C / 22h	ASTM F 38 B	[%]	30	
	Leakage Fuel A 1bar / 13,8 N/mm <sup>2</sup>	ASTM F 37 A	[ml/h]	0,4	
	Fluid resistance	ASTM F 146	ASTM IRM903		
			5h/150 °C		
	Weight change		[%]	20	
	Thickness increase		[%]	7	
	ASTM Fuel B	5h/23 °C			
			Weight change	[%]	18
Thickness increase		[%]	6		
Coolant/Water (50:50)	5h/100 °C				
		Weight change	[%]	25	
Thickness increase		[%]	6		

\* = Mode (typical value)

Issue: 12.08

Modifications: 5

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.