

## novatec<sup>®</sup> 825 F engineered graphite with Kevlar<sup>®</sup>

### Material profile:

- soft and highly adaptable gasket material with high stress relaxation properties under temperature. Completely new production process.

### Typical applications:

- Applications where high adaptability and high temperature resistance are required, e.g. valve covers in diesel engines.

### Supply data:

- Sheet sizes in mm: 1500x1500 / 1000x2000
- Thickness in mm: 0.80 / 1.60 / 2.40 / 3.20 / 4.80
- Special sheet sizes upon request
- Other thicknesses upon request

General data	Binders:	NBR		
	Colour:	cranberry		
	Branding:	Honeycomb with Compressed Graphite 825 F		
	Anti-stick coating:	both sides A 310		
	Sheet size and thickness tolerance:	acc. DIN 28091-1		
Physical properties (Gasket thicken. 2.40mm)	Property	Standard	Unity	Value *
		Identification	DIN 28 091-2	
	Density	DIN 28 090-2	[g/cm <sup>3</sup> ]	1.00 ± 0.05
	Tensile strength	DIN 52 910		
	longitudinal		[N/mm <sup>2</sup> ]	≥ 2.0
	transverse		[N/mm <sup>2</sup> ]	≥ 1.2
	Residual stress $\sigma_{dE/16}$	DIN 52 913		
	175 °C		[N/mm <sup>2</sup> ]	≥ 35
	300 °C		[N/mm <sup>2</sup> ]	≥ 30
	Compressibility	ASTM F 36 J	[%]	≤ 50
	Recovery	ASTM F 36 J	[%]	≥ 5.0
	Specific leakage rate	DIN 3535-6	[mg/m·s]	8*
	Fluid resistance	ASTM F 146		
	<u>ASTM IRM903</u>	5h/150 °C		
	Weight change		[%]	≤ 45
	Thickness increase		[%]	≤ 2
	<u>ASTM Fuel B</u>	5h/23 °C		
	Weight change		[%]	≤ 40
	Thickness increase		[%]	≤ 2

\* = Mode (typical value)

Issue: 12.08

Modifications: 2

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.

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