

novatec[®] INDUSTRIAL engineered graphite with Kevlar[®]

Material profile:

- highly adaptable gasket material with a high percentage of graphite, flexible, easy to cut
- very good stress relaxation
- excellent chemical and thermal resistance

Typical applications:

- Application in the general and chemical industry for oils, water, steam, weak acids and alkalines

Supply data:

- Sheet sizes in mm: 1500x1500 / 1000x2000
- Thickness in mm: 0.5 / 0.8 / 1.0 / 1.5 / 2.0 / 3.0 / 4.0
- Special sheet sizes upon request
- Other thicknesses upon request

| | | | | |
|--|-------------------------------------|--|----------------------|----------------|
| General data | Binders: | NBR | | |
| | Colour: | upon customer's request | | |
| | Standard version: | uncoated, black | | |
| | Anti-stick coating: | upon customer's request one side/both sides A 310 | | |
| | Special versions: | upon customer's request, e.g. glued, compressed, combinations with metal | | |
| | Sheet size and thickness tolerance: | acc. DIN 28091-1 | | |
| Physical properties of the raw material (Gasket thckn. 0.5 - 1.5mm) | Property | Standard | Unity | Value * |
| | Identification | DIN 28 091-2 | | FA - A 1 - O |
| | Density | DIN 28 090-2 | [g/cm ³] | 1.00 ± 0.05 |
| | Tensile strength | DIN 52 910 | | |
| | longitudinal | | [N/mm ²] | ≥ 2.0 |
| | transverse | | [N/mm ²] | ≥ 1.2 |
| | Residual stress $\sigma_{dE/16}$ | DIN 52 913 | | |
| | 175 °C | | [N/mm ²] | ≥ 44 |
| | 300 °C | | [N/mm ²] | ≥ 42 |
| | Compressibility | ASTM F 36 J | [%] | 45 ± 5 |
| | Recovery | ASTM F 36 J | [%] | ≥ 7.0 |
| | Fluid resistance | ASTM F 146 | | |
| | ASTM IRM903 | 5h/150 °C | | |
| Weight change | | [%] | ≤ 45 | |
| Thickness increase | | [%] | ≤ 2 | |
| ASTM Fuel B | 5h/23 °C | | | |
| Weight change | | [%] | ≤ 40 | |
| Thickness increase | | [%] | ≤ 2 | |
| Properties of the gaskets made to customer's specification: | depending on application | | | |

* = 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.