

Technical Data Sheet

- preliminary - for validation purposes only -



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

Material profile:

- Universally applicable gasket material
- Controlled swelling properties in oil and fuels
- Good adaptability
- The good adaptability combined with the controlled swell equalizes uneven gasket pressure as well as uneven surfaces

Typical applications:

- automotive gaskets
- oil pans, valve covers, axle-bearings
- gaskets for gearboxes and gearbox casings

Supply data:

- | | | | |
|----------------|--|-------------------|----------------|
| Rolls : | • 1000 or 2000mm | Thickness: | • 0.3 - 1.00mm |
| Coils : | • from 150 to 2000mm wound on paper coils - inner diameter 100mm | | |
| | • Special sizes upon request | | |

| General data | Binders: Branding: Anti-Stick: Color: Tolerances: | SBR Honeycomb / Frenzelit without coating / alternatively with PTFE black Width : ± 1mm / Thickness : ± 7% | | |
|--|---|--|----------------------|---------|
| Physical properties (sample thickness 0.80 mm) | Property | Standard | Unit | Value * |
| | Density | DIN 28 090-2 | [g/cm ³] | 1.47 |
| | Tensile Strength | DIN 52 910 | [N/mm ²] | 3.5 |
| | longitudinal | | [N/mm ²] | 3 |
| | transverse | | | |
| | Residual stress $\sigma_{dE/16}$ | DIN 52 913 | [N/mm ²] | 45 |
| | 175 °C | | [N/mm ²] | 43 |
| | 300 °C | | | |
| | Compressibility | ASTM F 36 J | [%] | 20 |
| | Recovery | ASTM F 36 J | [%] | 34 |
| | Media resistance | ASTM F 146 | | |
| | ASTM IRM903 | 5 h / 150 °C | | |
| | Change in weight | | [%] | 40 |
| | Change in thickness | | [%] | 20 |
| | ASTM Fuel B | 5 h / 23 °C | | |
| | Change in weight | | [%] | 30 |
| | Change in thickness | | [%] | 15 |

* = Mode (typical value)

Issue: 12/08

Modifications: 02

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 behavior of a flanged joint.

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