



Manufacturers and distributors of sealing and Jointing Materials



DATA / SPECIFICATION SHEET

SIGRAFLEX[®] HOCHDRUCK

Colour - Black or Grey with Purple Branding

DESCRIPTION

Sigraflex Hochdruck is a multi-layer sheet material comprising 0.5mm thick layers of high quality graphite foil and 0.05mm thick stainless steel foil. Depending on the sheet thickness required, several layers of graphite and stainless steel foil are joined together in a special process without the use of an adhesive.

The result is a material with outstanding mechanical properties.

SERVICE

The material is designed for highly loaded joints such as tongue and groove gaskets and for high internal pressures (see Pressure/Temperature chart for guidelines). Its high resistance to blow out makes the gasket a safe choice for hazardous applications.

APPROVALS / COMPLIANCE

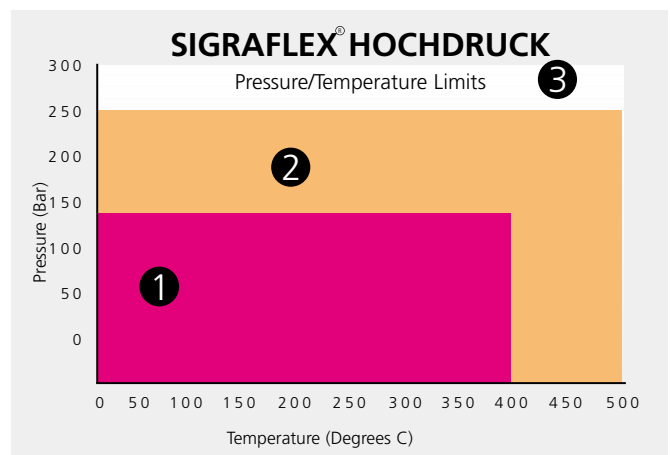
- BAM Approval
- DVGW
- MPA Stuttgart
- Germanischer Lloyd
- US Coastguard
- Fire Safety, BS 6755
- German Clean Air Act.

AVAILABILITY

Thickness range = 1.0mm to 4.0mm
 Standard sheet size = 1.0m x 1.0m and 1.5m x 1.5m

TYPICAL PHYSICAL PROPERTIES

Thickness		1.5mm
No of Inserts		2
Bulk Density Graphite		1.1g/cm ³
Ash Content Graphite		≤ 0.15%
Chloride Content		≤ 10ppm
Foil Material		ASTM 316(L)
Foil Thickness		0.05mm
Compression	DIN 28090-2	30-40%
Residual Stress	DIN 52913	48N/mm ²
Gas Permeability	DIN 3535 DIN E 28090-2	<0.3cm ³ /min <0.05mg(s-m)
ASME m Factor y Value		2.5 3000psi



- 1** Suitable subject to chemical compatibility
- 2** Suitable in some cases but check your application requirements with Novus
- 3** Contact the Novus Technical Team for applications with higher temperatures and pressures. Applicable to 1.5mm and below.

The operating temperature of non-asbestos sheet material is related to the thickness of materials selected. Thinner materials give better temperature and pressure properties.

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