

## Data / Specification Sheet • Sigraflex Hochdruck®

**Sigraflex Hochdruck®** is a multi-layer sheet material comprising 0.5mm thick layers of high quality graphite foil and 0.5mm 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 sealing 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.

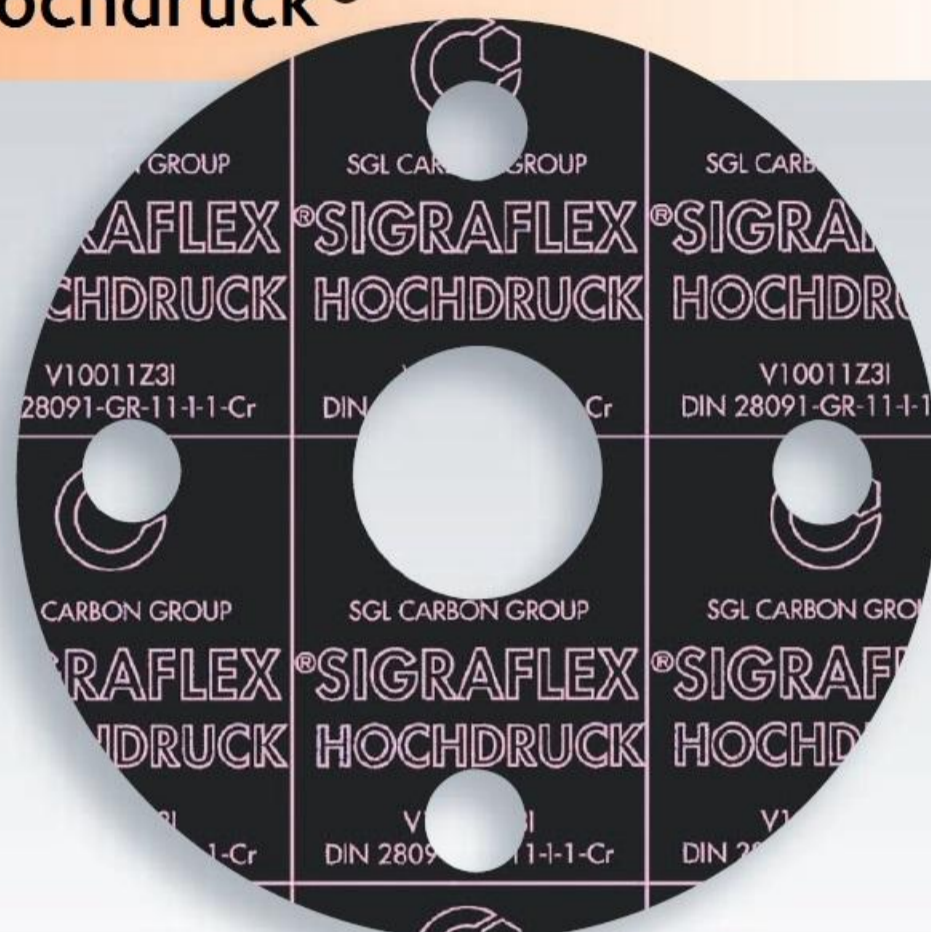
### Approvals / Compliance

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

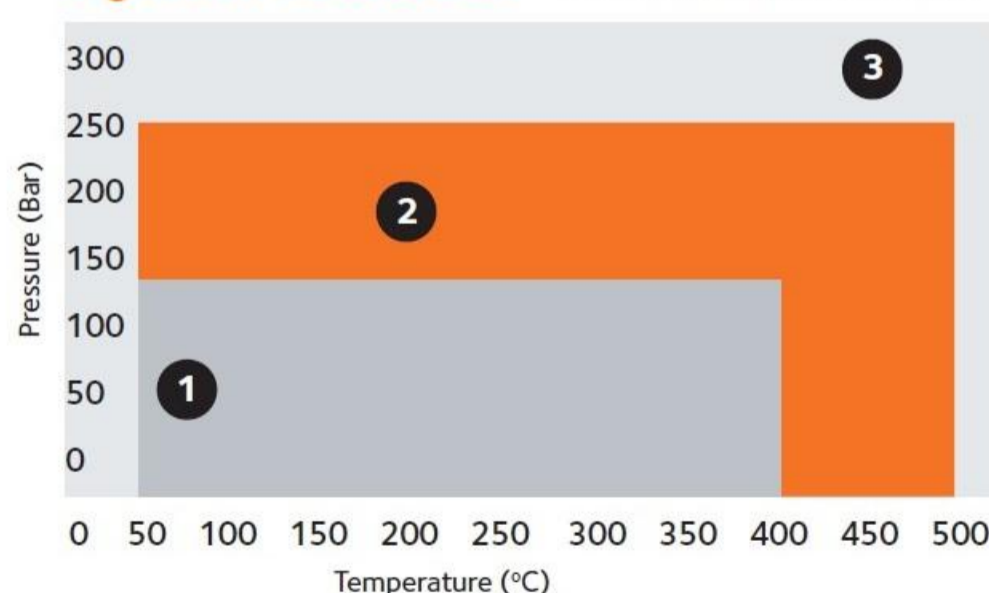
Standard sheet size:  
1.0m x 1.0m  
1.5m x 1.5m



### Physical properties

Thickness		1.5mm
No. of Inserts		2
Bulk Density Graphite		1.1g/cm <sup>3</sup>
Ash Content Graphite		50.15%
Chloride Content		5.20
Foil Material		1.4401
Foil Thickness		0.05
Compression	DIN 28090-2	30-40%
Residual Stress	DIN 52913	48N/mm <sup>2</sup>
Gas Permeability	DIN 3535	<0.03cm <sup>3</sup> /min
	DIN E 28090-2	<0.05mg/(s-m)
ASME m Factor		2.5
y Value		4000psi

### Sigraflex Hochdruck® Pressure/Temperature Limits



- 1 Suitable subject to chemical compatibility.
- 2 Suitable in some cases but check your application requirements with Flexitallic.
- 3 Contact the 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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