

## 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

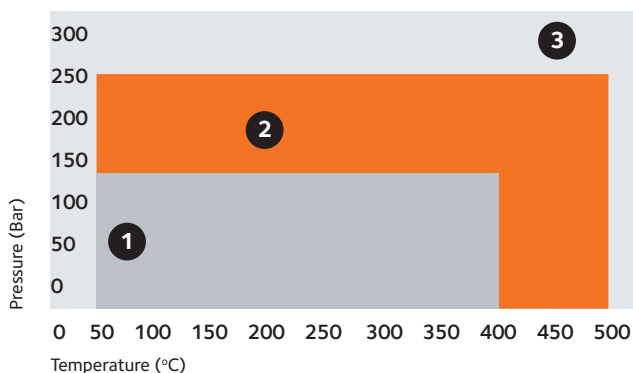
Thickness range:  
1.0mm to 4.0mm  
  
Standard sheet size:  
1.0m x 1.0m  
1.5m x 1.5m



### Physical properties

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

As the company's products are used for a multiplicity of purposes and as the company has no control over the method of their applications or use, the company excludes all conditions or warranties, expressed or implied by statute or otherwise, as to their products and/or their fitness for any particular purpose. Any technical co-operation between the company and the customer is given for customers assistance only, and without liability on the part of the company.