

# KLINGER® Graphite Laminate SLS

The pure graphite gasket sheet with a smooth stainless steel insert

KLINGER® Graphite Laminate SLS is especially suitable for weak flanges at high temperatures up to 450°C. The gasket material consists of pure exfoliated layers of graphite, which are mechanically bonded to a 0.05mm think, smooth, stainless steel insert. The insert aids material handling properties and also increases blow-out resistance. KLINGER® Graphite Laminate SLS is suitable for universal use especially in combination with weak flanges (glass) and for sealing of liquid level gauges.



In order to prevent the gasket material from sticking to the flange surface (even at high temperatures), the graphite surface can be given a non-stick coating at the customer's request. With this process, the gasket material's surface is coated and not impregnated.

#### TYPICAL VALUES REFER TO 2.0 MM THICK MATERIAL UNLESS NOTED

1.0 g/cm <sup>3</sup>
≥ 99.0 %
AISI 316 (L) 0.05 mm 1
35 - 50 %
10 - 15 %
≥ 46 MPa
40 - 50 % 1 - 4 %
< 0.10 mg/s x m
≤ 40 ppm
Grey
Upon request



## KLINGER® Graphite Laminate SLS

#### **KEY FEATURES AND BENEFITS**

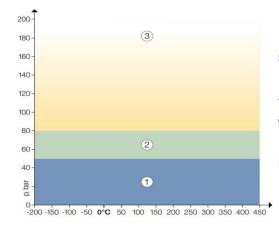
- Excellent chemical resistance
- Excellent high temperature resistance
- Highly Compressible and compactible
- Provides excellent adaptability to any sealing surface
- Seals irregular flanges
- Low gas permeability
- Low electrical resistance

#### CERTIFICATES AND APPROVALS

- » DIN-DVGW
- Fire-Safe acc. to DIN EN ISO 10497
- BAM tested

The pressure/temperature graphs shown are the most current method of determining the suitability of a gasket material in a known environment. However, chemical compatibility must also be considered.

### pT diagram for thickness 2.0 mm:



In area 1 the gasket material is suitable using common installation practices subject to chemical compatibility.

In area 2 appropriate measures are necessary for installation of the gasket to ensure maximum performance. Please call or refer to KLINGERexpert for assistance.

In area 3 do not install gaskets in these applications without first referring to KLINGERexpert or contacting KLINGER's technical support service.

The ability of a gasket to make and maintain a seal depends not only on the style and quality of the gasket material, but also on medium being sealed, the flange design, the amount of pressure applied to the gasket by the bolts and how the gasket is assembled onto the flanges and tightened. These factors are beyond the manufacturer's control.

**KLINGER Thermoseal**