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KLINGER Graphite Laminate SLS

KLINGER Graphite Laminate SLS is especially suitable for weak flanges at high temperatures up to 842F (450C). The gasket material consists of pure exfoliated layers of graphite, which are mechanically bonded to a 0.05mm thick, smooth, stainless steel insert. The insert aids material handling properties and also increases blow-out resistance. SLS is suitable for universal use especially in combination with weak flanges 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 upon request. With this process, the gasket material's surface is coated and not impregnated.

Typical Values Refer To 2.0mm Thick Material Unless Noted

Density of graphite layer DIN28090-2	1.0 g/cm ³
Purity of Graphite DIN 51903	≥ 99.0%
Metallic Reinforcement	
Plain Metal	AISI 316 (L)
Thickness	0.05mm
Number of Sheets	1
Compressibility ASTM F36A	35-50%
Recovery ASTM F36A	10-15%
Creep relaxation DIN 52913 16h/50 MPa/300C	≥ 46 MPa
KLINGER cold/hot compression 50 MPa	
Thickness decrease at 23C	40-50%
Thickness decrease at 300C	1-4%
Specific leak rate DIN 28090-2	< 0.10 mg/s x m
Chloride content of graphite layer DIN 28090-2	≤ 40 ppm
Color	Grey
Non-stick coating	Upon request