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KLINGER Graphite Laminate PSM

KLINGER Graphite Laminate PSM has a 0.1mm thick perforated stainless steel insert. The insert aids material handling properties and also increases the blow-out resistance. The insert is mechanically bonded to pure exfoliated graphite and therefore does not rely on adhesive.

Stable physical properties over the whole temperature range. PSM is suitable for hot water and steam at high temperatures up to 842F (450C).

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	35-40%
Recovery ASTM F36A	12-18%
Creep relaxation DIN 52913 16h/50 MPa/300C	≥ 46 MPa
KLINGER cold/hot compression 50 MPa	
Thickness decrease at 23C	35-45%
Thickness decrease at 300C	1-3%
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