

KLINGER®, Graphite Laminate PSM

KLINGER® Graphite Laminate PSM is a pure graphite gasket material with a 0.1mm thick perforated stainless steel insert mechanically bonded to pure graphite, aiding material handling properties and increases the blow-out resistance. The PSM material is suitable for hot water and steam at high temperatures.

TECHNICAL DATA SHEET

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PHYSICAL PROPERTY	TEST METHOD	UNIT	VALUE
Color	--	--	Grey
Composition	Expanded graphite with a 0.1 mm thick tanged stainless steel insert		
Density of Graphite Layer	DIN28090-2	g/cm ³	1.0
Purity of Graphite	DIN 51903	%	≥ 99.0
Metallic Reinforcement			
Tanged Metal	--	--	AISI 316 (L)
Thickness	--	mm	0.10
Number of Sheets	--	--	1
Compressibility	ASTM F36A	%	35 - 45
Recovery	ASTM F36A	%	12 - 18
Creep Relaxation			
16h/50 MPa/300°C	DIN 52913	MPa	≥ 46
KLINGER Cold/Hot Compression 50 MPa			
Thickness Decrease 23°C	--	%	35 - 45
Thickness Decrease 300°C	--	%	1 - 3
Specific Leak Rate	DIN 28090-2	mg/s x m	< 0.10
Chloride Content of Graphite Layer	DIN 28090-2	ppm	≤ 40
Certificates	DIN-DVGW, KTW, Fire Safe according to DIN EN ISO 10497, German Lloyd, BAM tested		