

KLINGER®, Graphite Laminate SLS

KLINGER® Graphite Laminate SLS consists of pure exfoliated layers of graphite, mechanically bonded to a 0.05mm thick smooth, stainless steel insert. This insert aids material handling properties and increases the blow-out resistance. The SLS material is suitable for universal use especially in combination with weak flanges and for sealing of liquid level gauges.

TECHNICAL DATA SHEET

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PHYSICAL PROPERTY	TEST METHOD	UNIT	VALUE
Color	--	--	Grey
Composition	Pure exfoliated layers of graphite, mechanically bonded to a 0.05mm thick, smooth, stainless steel insert		
Density of Graphite Layer	DIN28090-2	g/cm ³	1.0
Purity of Graphite	DIN 51903	%	≥ 99.0
Metallic Reinforcement			
Plain Metal	--	--	AISI 316 (L)
Thickness	--	mm	0.05
Number of Sheets	--	--	1
Compressibility	ASTM F36A	%	35 - 50
Recovery	ASTM F36A	%	10 - 15
Creep Relaxation 16h/50 MPa/300°C	DIN 52913	MPa	≥ 46
KLINGER Cold/Hot Compression 50 MPa			
Thickness Decrease 23°C	--	%	40 - 50
Thickness Decrease 300°C	--	%	1 - 4
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, Fire Safe according to DIN EN ISO 10497, BAM tested		