



KLINGER® Graphite Laminate PSM - the pure graphite gasket with tanged sheet metal insert.

Made of expanded graphite with an 0.1 mm thick insert of tanged stainless steel and featuring adhesive-free bonding, this gasket material is ideal for hot water and steam applications at temperatures of up to 450 °C, in which it displays no change to its physical properties. Furthermore, it is free of resins, impregnations or other organic substances.



Basis composition Expanded graphite with a 0.1 mm thick tanged stainless steel insert.

Color Grey

Certificates DIN-DVGW, KTW, Fire Safe acc. to DIN EN ISO 10497, German Lloyd, BAM tested, Fire Safe Approval, API 6FB AGA Gas Approval per AS4623-2008 Class III (2MPa pressure)

Sheet size 1000 x 1000 mm, 1500 x 1500 mm, 2000 x 1000 mm

Thickness 0.6 mm, 0.8 mm, 1.0 mm, 1.5 mm, 2.0 mm, 3.0 mm, 4.0 mm, 5.0 mm, 6.0 mm

Tolerances

Thickness: ± 5 %
Length: ± 5 mm
Width: ± 5 mm

Industry

General industry / Chemical / Oil & Gas / Energy / Pulp & Paper / Marine / Automotive

TECHNICAL DATA - Typical values for a thickness of 2.0 mm

Density of the graphite layer	DIN 28090-2	g/cm ³	1.0
Purity of graphite ¹⁾	DIN 51903	%	≥ 99.0
Metallic reinforcement	Tanged metal		AISI 316 (L)
	Thickness	mm	0.10
	Number of sheets		1
Compressibility	ASTM F36 A	%	35 - 45
Recovery	ASTM F36 A	%	12 - 18
Compression creep DIN 52913	16 h/ 50 MPa/ 300°C	MPa	≥ 46
Klinger cold/hot compression 50 MPa	Thickness decrease at 23°C	%	35 - 45
	Thickness decrease at 300°C	%	1 - 3
Specific leak rate	DIN 28090-2	mg/ s x m	< 0.10
Chloride content of graphite layer ²⁾	DIN 28090-2	ppm	≤ 40

1) High purity graphite with a purity of ≥99.8 with low sulphur and chloride levels available per request.

2) Detailed specifications of the used graphite foils can be sent to you on request

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