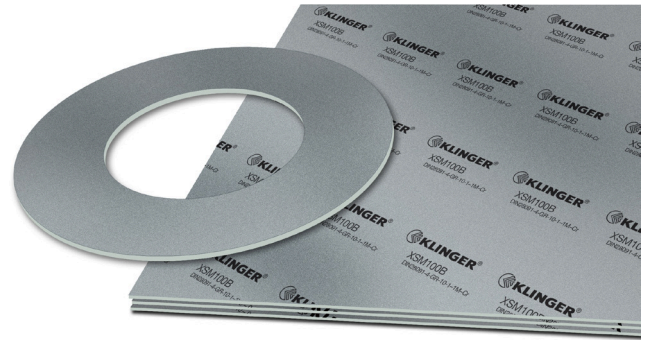


KLINGER® Graphite Laminate XSM - offers stable physical properties over the whole temperature range.

An adhesive-free gasket material comprising a flexible graphite foil and a stainless steel tang insert, this product is mainly used in the automotive industry as a result of its outstanding oxidation resistance. Suited for continuous high-temperature operation up-to 550°C, it is easy to handle, displays good scratch resistance as well as excellent chemical resistance.



Basis composition Flexible graphite foil with a tanged stainless steel insert.

Color Grey

Certificates Per request

Sheet size 1000 x 1000 mm, 2000 x 1000 mm

Thickness 1.0 mm, 1.5 mm, 2.0 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) Detailed specifications of the used graphite foils are found in our Graphite vade mecum, which will be sent to you on request with pleasure

