

KLINGER® Graphite Laminate SLS

KLINGER® Graphite Laminate SLS is especially suitable for weak flanges at high temperatures up to 450°C.

The gasket material consists of expanded graphite and a glued stainless steel insert. The material is for universal use especially in combination with weak flanges (Email, glass) and for sealing of liquid level gauges. Due to the low amount of glue (<1% of the graphite) the chemical and thermal resistance of the graphite is not influenced.



Key features:

- » Stainless steel foil as insert
- » Excellent chemical resistance
- » Excellent high temperature resistance

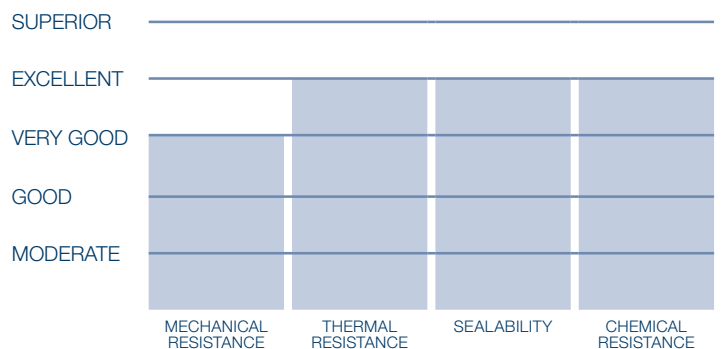
Benefits:

- » Provides excellent adaptability to any sealing surface
- » Seals irregular flanges
- » Conforms easily
- » Stable physical properties over the whole temperature range

Certificates and approvals:

- » DIN-DVGW
- » Fire Safe acc. to DIN EN ISO 10497
- » BAM tested

Properties: referring to Graphite product range



Industries:



INDUSTRY



CHEMICAL



OIL & GAS



ENERGY



INFRASTRUCTURE



PULP & PAPER



TRANSPORT



FOOD & BEVERAGES



PHARMA

Typical technical data for KLINGER® Graphite Laminate SLS:

			1.0 mm	1.5 mm	2.0 mm
Density of the graphite layer	DIN 28090-2	g/cm ³	1.0	1.0	1.0
Purity of graphite ¹⁾	DIN 51903	%	≥ 99.0	≥ 99.0	≥ 99.0
Metallic reinforcement	Tanged metal		1.4401 (or 1.4404)		
	Thickness	mm	0.05	0.05	0.05
	Number of sheets		1	1	1
Compressibility ASTM F36 J	ASTM F36 J	%	40 - 50	40 - 50	40 - 50
Recovery ASTM F36 J	ASTM F36 J	%	10 - 15	10 - 15	10 - 15
Stress relaxation DIN 52913	16 h/ 50 MPa/ 300°C	MPa	≥ 45	≥ 45	≥ 45
Klinger cold/hot compression 50 MPa	Thickness decrease at 23°C	%	42 - 48	42 - 48	45 - 50
	Thickness decrease at 300°C	%	2 - 4	2 - 4	2 - 4
Specific leakrate λ	DIN 28090-2	mg/ s x m	< 0.06	< 0.10	< 0.10
Chloride content of graphite layer ²⁾	DIN 28090-2	ppm	≤ 40	≤ 40	≤ 40

1) Nuclear quality with a purity of ≥99.8 available on request

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

Dimensions of the standard sheets:

Sizes:

1000 x 1000 mm, 2000 x 1000 mm

Thicknesses:

0.6 mm, 0.8 mm, 1.0 mm, 1.5 mm, 2.0 mm, 3.0 mm

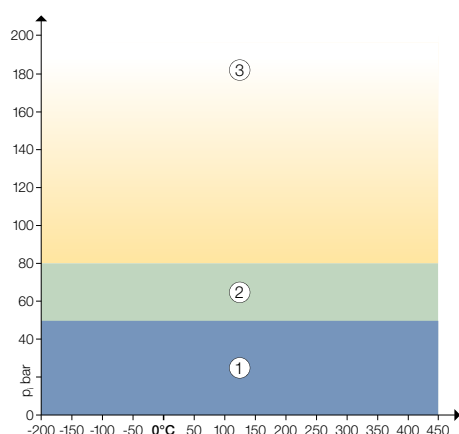
Tolerances:

Thickness ± 5%

Length ± 4 mm, width ± 4 mm

Other thicknesses, sizes and inserts on request.

pT diagram for thickness 2.0 mm:



①

In area one, the gasket material is normally suitable subject to chemical compatibility.

②

In area two, the gasket material may be suitable but a technical evaluation is recommended.

③

In area three, do not install the gasket without a technical evaluation.

Always refer to the chemical resistance of the gasket to the media.

All information and recommendations contained in this data sheet are to the best of our knowledge correct. Since conditions of use are beyond our control, users must satisfy themselves that the products are suitable for the intended processes and uses. No warranty is given or implied in respect of information or recommendations or that any use of products will not infringe rights belonging to other parties. In any event or occurrence our liability to our invoice value of the goods delivered by us to you. We reserve the right to change product design and properties without notice.

Certified acc. to DIN EN ISO 9001:2008 Subject to technical alterations. Status: June 2016





Klinger Portugal, Lda.
Via José Régio, 36
Centro Empresarial Vilar do Pinheiro
4485-860 Vila do Conde
T: +351 22 947 0910
E-mail: geral@klinger.pt

Delegação Lisboa
Rua de Cabo Verde, 8
Prior Velho 2685-316
T: +351 21 940 6620
E-mail: lisboa@klinger.pt