

KLINGER® Graphite Laminate TSM

KLINGER® Graphite Laminate TSM fulfills the TA-Luft requirements and offers safety at high temperatures up to 450°C.

Glueless gasket material consisting of impregnated expanded graphite and a 0.1mm thick tanged stainless steel insert.

Stable physical properties over the whole temperature range.

Key features:

- » Mechanically bonded tanged stainless steel insert
- » Excellent high temperature resistance
- » Excellent chemical resistance

Benefits:

- » Superior tightness (TA-Luft approval)
- » Stable physical properties over the whole temperature range

Certificates and approvals:

- » TA-Luft (Clean Air)

Properties: referring to Graphite product range

SUPERIOR				
EXCELLENT				
VERY GOOD				
GOOD				
MODERATE				
	MECHANICAL RESISTANCE	THERMAL RESISTANCE	SEALABILITY	CHEMICAL RESISTANCE

Industries:



Typical technical data for KLINGER® Graphite Laminate TSM:

			TSM 150B	TSM 200B	TSM 300B-2
Thickness	mm		1.5	2.0	3.0
Density of graphite	g/cm ³		1.0	1.0	1.0
Ash content graphite DIN 51903	%		≤ 2.0	≤ 2.0	≤ 2.0
Insert	Material	1.4401 (or 1.4404)			
Tanged stainless steel sheet	Thickness	mm	0.1	0.1	0.1
	Number of inserts		1	1	2
Compressibility ASTM F36A	%		30 - 45	30 - 45	30 - 45
Recovery ASTM F36A	%		15 - 25	15 - 25	15 - 25
Residual stress DIN 52913	σ_D 16h, 300°C, 50 N/mm ²	N/mm ²	≥ 45	≥ 45	≥ 45

Dimensions of the standard sheets:

Sizes:

1000 x 1000 mm

Thicknesses:

1.5 mm, 2.0 mm, 3.0 mm

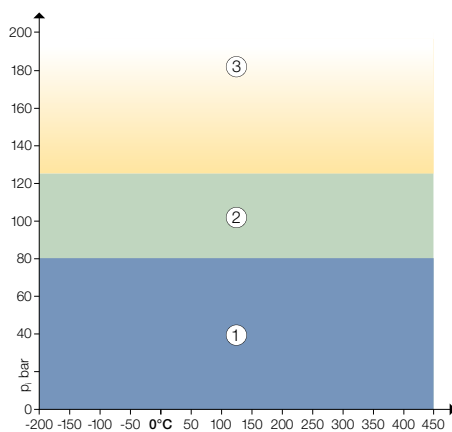
Tolerances:

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.





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