

## Specification Klinger Graphite Laminate Type PSM...

with tang stainless steel insert

	PSMA	PSMB	PSMC
g/cm³	1.0 ± 5%	1.0 ± 5%	1.0± 5%
%	max. 0.2	max. 2	max. 2
ppm	max. 20	max. 40	max. 50
ppm	max. 600	max. 800	max. 1100
mm	0.1		
	AISI 316		
rt	1		
) MPa	min. 48		
h 10mm)			
MPa	25		
MPa	180		
MPa	140		
width 10mm)			
%	31 - 33		
%	4.9 - 5.1		
s %	1.1 – 1.2		
%	4.2 – 4.3		
mm	0.064 – 0.066		
°C	max. 450	max. 450	max. 350
mm	0.60, 0.80, 1.00, 1.50, 2.00, 3.00		
%	± 5% of nominal thickness		
mm	1000 x 1000 1000 x 2000	1000 x 1000 1000 x 2000 1500 x 1500	1000 x 1000 1000 x 2000 1500 x 1500
mm	± 5 mm of nominal sizze		
	%         ppm         ppm         mm         rt         )       MPa         n 10mm)         MPa         %         %         %         %         %         %         %         %	g/cm <sup>3</sup> $1.0 \pm 5\%$ %       max. 0.2         ppm       max. 20         ppm       max. 600         mm	g/cm <sup>3</sup> $1.0 \pm 5\%$ $1.0 \pm 5\%$ %         max. 0.2         max. 2           ppm         max. 20         max. 40           ppm         max. 600         max. 800           mm         0.1           AISI 316           rt         1           MPa         min. 48           n 10mm)         MPa         25           MPa         180           MPa         140           width 10mm)         31 - 33           %         31 - 33           %         4.9 - 5.1           %         4.2 - 4.3           mm         0.064 - 0.066           °C         max. 450         max. 450           mm         0.60, 0.80, 1.00, 1.50, 2.           % $\pm 5\%$ of nominal thick           mm         1000 × 1000         1000 × 2000           1500 × 1500         1500 × 1500

Typical value at 1.5mm thickness.

Other thicknesses and sizes on request.

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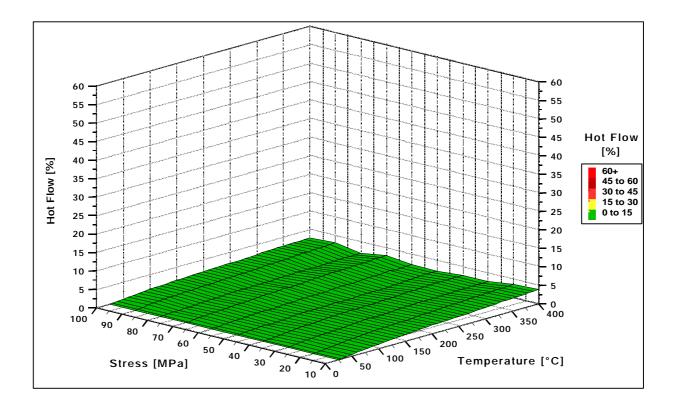
## Anti-stick coating (AS)

The foils and sheets mentioned above are available with Klinger antistick, a coating which keeps its stability even at high temperature and causes no organic contamination of the pure graphite.

## Klinger hot and cold compression test method

The Klinger hot compression test was developed by Klinger as a method to test the load bearing capabilities of gasket materials under hot and cold conditions. In contrast to the BS7531 and DIN52913 tests, the Klinger compression test maintains a constant gasket stress troughout the entire test. This subjects the gasket to more severe conditions.

The thickness decrease is measured at 25°C after applying the gasket load. This simulates assembly. Temperature up to 400°C are then applied and the additional thickness decrease is measured. This simulates the first start up phase.



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