

# KLINGER® milam PSS

KLINGER® milam PSS is suitable for highest temperatures up to 900°C and higher.

The particular property of this material is the outstanding thermal stability. The weight loss at 800°C is less than 5%. In combination with excellent chemical resistance to solvents, aggressive acids, alkalis and mineral oils it offers interesting application possibilities.



## Key features:

- » Tanged stainless steel 1.4401 insert
- » Impregnated with high quality silicone oil
- » Free of fibres
- » Superior high temperature resistance
- » Excellent chemical resistance

## Benefits:

- » Ideal for high temperatures up to 900°C and higher
- » Recommended for exhaust systems
- » Extremely high oxidation resistance

## Certificates and approvals:

- » German Lloyd

## Properties: referring to Mica Laminate product range

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

## Industries:



## Typical technical data for KLINGER® milam PSS:

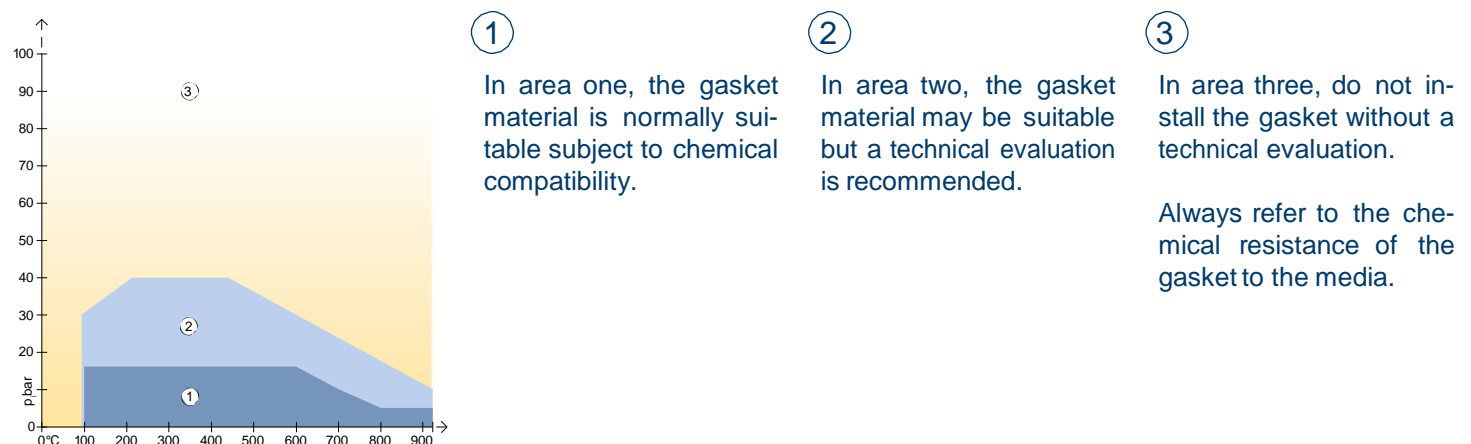
		PSS 130	PSS 200	PSS 300
Compressibility ASTM F 36 J	%	12 - 16	13 - 19	17 - 25
Recovery ASTM F 36 J	%	35 - 45	35 - 45	30 - 40
Stress relaxation DIN 52913, 50 MPa, 16 h/300°C	MPa	33	33	30
Tensile strength DIN 52910	MPa	22	21	20
Tensile strength ASTM F 152	MPa	25	24	21
Ignition loss DIN 52911	%	<5	<5	<15
Sealability for nitrogen at 30 MPa and 6 bar, temperature within 100 to 400°C (Sample size 90 x 50 mm) max	ml/min	0.20	0.20	1.0
Thickness increase ASTM F 146, Oil IRM 903: 5 h/150°C	%	12	12	5
Weight increase ASTM F 146, Oil IRM 903: 5 h/150°C	%	26	26	28
Max. gasket load	MPa	100	80	80
Density DIN 3754	g/cm <sup>3</sup>	2.1	2.1	1.8
Max. temperature*	°C	900	900	900
Thickness	mm	1.3	2.0	3.2
Number of stainless steel reinforcements		1	1	2
Material Tanged stainless steel		1.4401 (or 1.4404)		

\* depending on installation and service conditions.

## Dimensions of the standard sheets:

<b>Sizes:</b>	<b>Tolerances:</b>
1000 x 1200 mm	Thickness PSS 130 $\pm$ 8%, PSS 200 $\pm$ 10%, PSS 300 $\pm$ 10%
<b>Thicknesses:</b>	Length $\pm$ 4 mm, width $\pm$ 4 mm
PSS 130 = 1.3 mm, PSS 200 = 2.0 mm, PSS 300 = 3.2 mm	Other thicknesses, sizes and inserts on request.

## pT diagram for thickness 2.0 mm:



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