

# KLINGER MILAM PSS



## DESCRIPTION

Featuring a high-temperature Mica-based material with perforated stainless steel reinforcement, KLINGER® milam PSS gaskets are specifically designed for hot, dry gas applications at up to 900 °C and 5 bar. Their outstanding chemical resistance also makes them suitable for a wide range of other applications. This product is also available as Milam H, a high-quality homogeneous mica sheet.

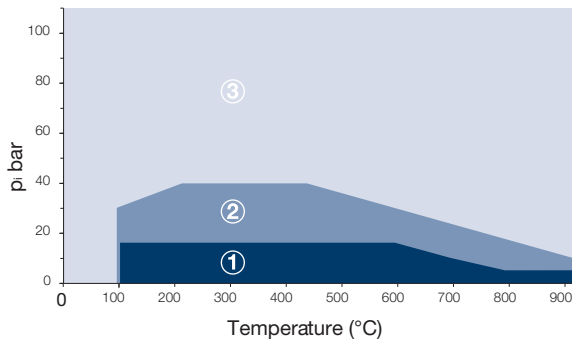


ITEM		DATA
Basic composition		Mica-based sealing material with a perforated 0.1 mm thick stainless steel reinforcement.
Sheet size		1000 x 1200 mm
Colour		Brown
Thickness		PSS 130 = 1.3 mm, PSS 200 = 2.0 mm, PSS 300 = 3.2 mm
Certificates		German Lloyd
Tolerances	Thickness	± 10 %
	Width	± 5 mm
	Length	± 5 mm
Industries		General industry, Chemical, Oil & Gas, Energy, Pulp & Paper, Marine, Automotive

## TECHNICAL DATA

Typical values for different thicknesses		PSS 130	PSS 200	PSS 300	
<b>COMPRESSIBILITY ASTM F36J</b>		%	12-20	15-23	18-26
<b>RECOVERY ASTM F36J</b>		%	30-45	32-42	28-38
<b>STRESS RELAXATION DIN 52913, 50 MPa, 16 h/300°C</b>		MPa	33	33	30
<b>IGNITION LOSS</b>		%	<5	<5	<15
<b>SEALABILITY FOR NITROGEN AT 30 MPA AND 6 BAR, TEMPERATURE WITHIN 100 TO 400°C (SAMPLE SIZE 90 X 50 MM) MAX</b>		ml/min	0.20	0.20	1.0
<b>THICKNESS INCREASE ASTM F 146, OIL IRM 903: 5 H/150°C</b>		%	12	12	5
<b>WEIGHT INCREASE ASTM F 146, OIL IRM 903: 5 H/150°C</b>		%	26	26	28
<b>MAX. GASKET LOAD</b>		MPa	100	80	80
<b>DENSITY</b>		g/cm <sup>3</sup>	2.1	2.1	1.8
<b>MAX. TEMPERATURE</b>		°C	900	900	900
<b>THICKNESS</b>		mm	1.3	2.0	3.2
<b>NUMBER OF STAINLESS STEEL REINFORCEMENTS</b>			1	1	2
<b>MATERIAL TANGED STAINLESS STEEL</b>			AISI316 (L)		

## P-T DIAGRAM- THICKNESS 2.0 MM

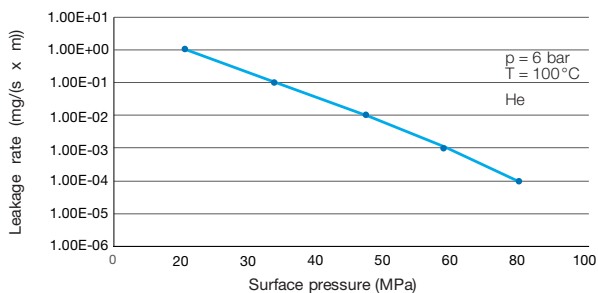


### The area of the P-T diagram

1. In area one, the gasket material is normally a 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 gasket's chemical resistance to the media.

## TIGHTNESS PERFORMANCE



### The tightness performance graph

The graph shows the required stress at assembly to seal a certain tightness class. The determination of the graph is based on EN13555 test procedure which applies 40 bar Helium at room temperature. The sloping curve indicates the ability of the gasket to increase tightness with raising gasket stress.

## CHEMICAL RESISTANCE CHART

Simplified overview of the chemical resistance depending on the most important groups of raw materials:

**A:** small or no attack **B:** weak to moderate attack **C:** strong attack

Paraffinic hydrocarbon	Motor fuel	Aromates	Chlorinated hydrocarbon fluids	Motor oil	Mineral lubricants	Alcohol	Ketone	Ester	Water	Acid (diluted)	Base (diluted)
A	A	A	A	B	A	A	A	A	A	B	B

All information is based on years of experience in production and operation of sealing elements. However, in view of the wide variety of possible installation and operating conditions one cannot draw final conclusions in all application cases regarding the behaviour in gasket joints. The data may not, therefore, be used to support any warranty claims. This edition cancels all previous issues. Subject to change without notice.