SALMARCON®

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SOFT SEALING
SOLUTIONS

TRUSTED TO DELIVER INNOVATIVE SOLUTIONS

MICA SHEETS

MICA GASKETS

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KLINGER® Mica Materials

Mica gaskets are used in the automotive sector, gas turbines, gas and oil burners, heat exchangers and in other flange connections. Mica gaskets are made from a material which consists of phlogopite mica paper with a silicone binder.

Sizes:
1000 x 1200 mm

Thickness:
1.3 mm, 2.0 mm, 3.2 mm

Tolerances:
Thickness ± 10%
Length ± 5 mm
Width ± 5 mm

Material advantages:

- Chemical resistance
- Conformable to surface
- Hot water usage
- Tighteness at low load
- No longterm embritlement
- Crush resistance

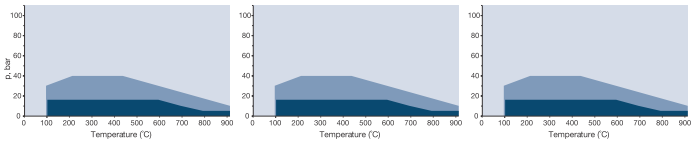
	PSS 130	PSS 200	PSS300
			
Basis composition	Mica-based with perforated 0.1 mm thick stainless steel reinforcement made of 1.4401 or AISI 316.	Mica-based with perforated 0.1 mm thick stainless steel reinforcement made of 1.4401 or AISI 316.	Mica-based with perforated 0.1 mm thick stainless steel reinforcement made of 1.4401 or AISI 316.
Thickness:	1.3 mm	2.0 mm	3.2 mm
Key features:	Outstanding gasket material for temperatures up to 900 °C and higher. Minimum weight loss at max. temperature.	Outstanding gasket material for temperatures up to 900 °C and higher. Minimum weight loss at max. temperature.	Outstanding gasket material for temperatures up to 900 °C and higher. Minimum weight loss at max. temperature.
Industry:	General industry, Chemical, Oil & Gas, Energy, Pulp & Paper, Marine, Automotive	General industry, Chemical, Oil & Gas, Energy, Pulp & Paper, Marine, Automotive	General industry, Chemical, Oil & Gas, Energy, Pulp & Paper, Marine, Automotive
Certificates & Approvals	Germanischer Lloyd. Please inquire for more info.	Germanischer Lloyd. Please inquire for more info.	Germanischer Lloyd. Please inquire for more info.

TECHNICAL DATA Typical values for a thickness of 2.0 mm

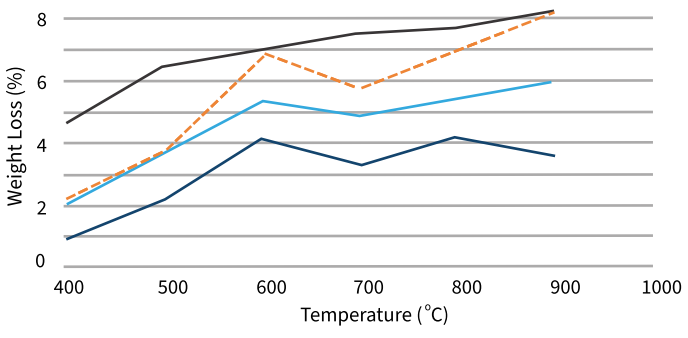
Compressibility ASTM F 36 J	%	15-23	15-23	15-23
Recovery ASTM F 36 J	%	32-42	32-42	32-42
Stress relaxation DIN 52913, 50 MPa, 16 h/300°C	MPa	33	33	33
Ignition loss	%	<5	<5	<5
Sealability for nitrogen at 30 MPa and 6 bar, temperature within 100 to 400°C				
(Sample size 90 x 50 mm) max	ml/min	0.20	0.20	0.20
Thickness increase ASTM F 146, Oil IRM 903: 5 h/150°C	%	12	12	12
Weight increase ASTM F 146, Oil IRM 903: 5 h/150°C	%	26	26	26
Max. gasket load	MPa	80	80	80
Density	g/cm³	2.1	2.1	2.1
Max. temperature	°C	900	900	900
Thickness	mm	2.0	2.0	2.0
Number of stainless steel reinforcements		1	1	1
Material Tanged stainless steel		ASI 316 (L)	ASI 316 (L)	ASI 316 (L)

The area of the **P-T diagram**

- In area one, the gasket material is normally suitable subject to chemical compatibility.
- In area two, the gasket material may be suitable but a technical evaluation is recommended.
- In area three, do not install the gasket without a technical evaluation. Always refer to the chemical resistance of the gasket to the media.

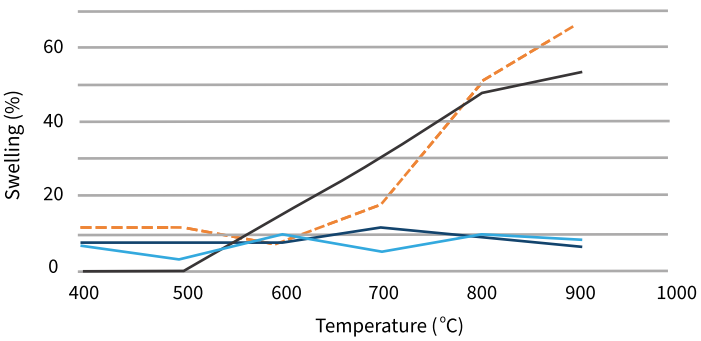


Weight loss diagram shows Milam PSS loses much less weight comparing to the competition materials.



A Competitor B Competitor Milam H Milam PSS

Swelling diagram shows Milam PSS swells much less than competition whilst preserving very good gasket adhesion.



A Competitor B Competitor Milam H Milam PSS

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