

Klinger® Milam PSS - the mica laminate with a tanged stainless steel insert

Featuring a high temperature, phlogopite mica material with tang stainless-steel reinforcement, KLINGER® milam PSS gasket material is specifically designed for hot, dry, gas applications up to 900°C and 6 bar internal pressure. Its outstanding chemical resistance also makes it suitable for a wide range of other applications.



Basic composition Mica laminate with a 0.1 mm thick tanged stainless steel insert

Colour beige gold to green

Certificates DNV

Sheet size 1000 x 1200 mm

Thickness PSS130=1.3 mm, PSS200=2.0 mm, PSS300=3.2 mm

Tolerances

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

Industries

General industry | Chemical | Oil&Gas | Energy | Pulp&Paper | Marine | Automotive

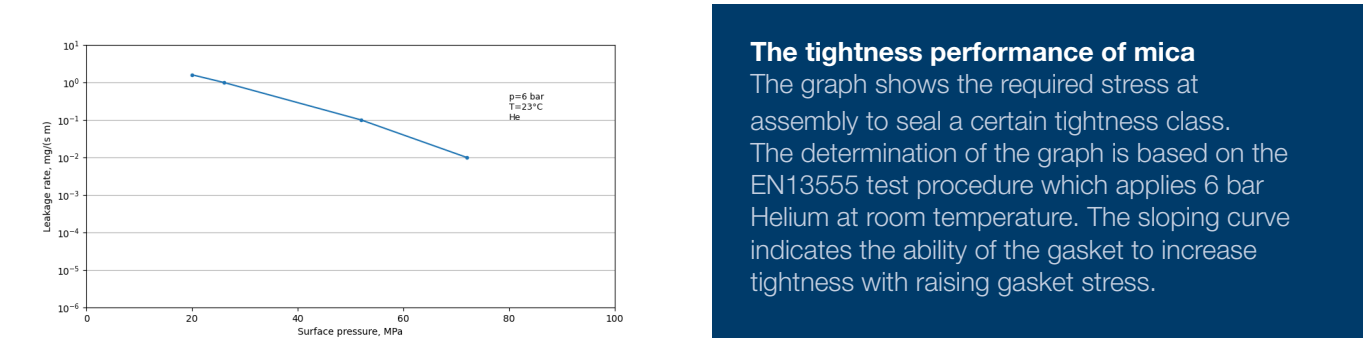
Technical data - Typical values for a thickness of 2.0 mm.

Density of the mica layer	DIN 28090-2	g/cm ³	1.9
Loss on ignition	TGA at 1000°C for 4 h	%	≤ 5
Reinforcement	Tanged metal	AISI 316 (L)	
	Thickness	mm	0.1
	Number of inserts		1
Compressibility	ASTM F36J	%	15-25
Recovery	ASTM F36J	%	35 - 45
Maximum gasket stress Q_{smax} at RT	EN 13555	MPa	220
Maximum gasket stress Q_{smax} at 400°C	EN 13555	MPa	100
Minimum required gasket stress in assembly $Q_{min(0.1)}$ at RT and 6 bar	EN 13555	MPa	60

P-T diagram - thickness 2.0 mm



Tightness performance



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 till 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	A	A	A	A	A	A	B	B