

Technical data MilamPSS

(PSS=mica sheet laminated on pegged stainless steel insert)

	Norm		MilamPSS...	
Density of the mica sheet	DIN 28090-2	g/cm ³	1.9 ± 5%	
Loss of weight of the mica sheet	DIN 52911	%	≤ 5	
Rate of Phlogopite mica	IEC 371-2	%	≥ 90	
Rate of silicone binding agent	IEC 371-2	%	≤ 10	
Loss of weight due to oxidation (670 °C, 4 h)	DIN 28090-2	%/h	≤ 5 (PSS300 ≤ 15)	
Operation temperature		°C	≤ 900	

Available dimension		mm	1000 x 1200 ±4	
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Data dependent on the thickness

			MilamPSS130	MilamPSS150	MilamPSS200	MilamPSS300 ¹⁾
Thickness		mm	1.30 ±0.13	1.50 ±0.15	2.00 ±0.20	3.20 ±0.32
Steel insert			Pegged steel insert			
Material number			1.4401 (1.4404) ²⁾			
Thickness		mm	0.10			
Number of inserts		Piece	1	1	1	2
Leakage at 30 MPa, 6 bar He, Temperature ≥ 100 °C		mg/(s*m)	≤ 0.10	≤ 0.10	≤ 0.15	≤ 1.5
Residual stress σ_D 16h, 300°C, 50MPa	DIN 52913	MPa	≥ 35	≥ 35	≥ 35	≥ 30
Gasket parameters DIN EN 13555	DIN EN 13555		www.klinger-ag.ch			
Deformation parameters						
Cold compressibility ϵ_{KSW}		%	10 - 20	10 - 20	10 - 20	20 - 30
Cold recovery ϵ_{KRW}	DIN 28090-2	%	3 - 6	3 - 6	3 - 6	3 - 6
Hot creep $\epsilon_{WSW 300}$		%	< 10	< 10	< 10	< 10
Hot recovery $\epsilon_{WRW 300}$		%	2 - 4	2 - 4	2 - 4	2 - 4
Compressibility		%	12 - 20	15 - 23	15 - 23	18 - 26
Recovery	ASTM F36A	%	32 - 42	32 - 42	32 - 42	28 - 38

1) Insert made of beater material

2) Instead of steel mat no 1.4401 (1.4404) also available: Nickel alloy, Titanium

Other thicknesses and dimensions on request.



Specification

Klinger Milam Laminate PSS150 high quality mica sheet laminated on pegged stainless steel insert

Compressibility ASTM F36A	12 - 20 %
Recovery	35 - 45 %
Ignition loss DIN 52911	≤ 5 %
Stress relaxation DIN 52913 50 MPa / 300°C / 16 h	≥ 33 MPa
Stress relaxation BS 7531 40 MPa / 300°C / 16 h	≥ 28 MPa
Tang insert	AISI 316 (L), 0.10 mm
Continuous service temperature (in oxidizing atmosphere)	≥ 100° C ≤ 900 ° C
Gas leakage at 30 MPa/6 bars He Temperature 100 to 400 °C Gasket size 90 x 50 mm	≤ 0.10 mg/s/m
Stress	≤ 90 MPa
Thickness	1.50 mm ± 10 %
Sheet size	1200 x 1000 mm ± 4 mm

Other thicknesses and sizes on request.

The technical data stated has been determined with standard material under laboratory conditions. With the variety of installation and operating conditions no guarantee claim can be inferred regarding the behaviour of a flange joint.
The suitability of the product for its purposes has to be determined independently by the buyer. We reserve the right to product changes which serve the purpose of technical progress.



Specification

Klinger Milam Laminate PSS200 high quality mica sheet laminated on pegged stainless steel insert

Compressibility ASTM F36A	15 - 23 %
Recovery	32 - 42 %
Ignition loss DIN 52911	≤ 5 %
Stress relaxation DIN 52913 50 MPa / 300°C / 16 h	≥ 33 MPa
Stress relaxation BS 7531 40 MPa / 300°C / 16 h	≥ 28 MPa
Tang insert	AISI 316 (L), 0.10 mm
Continuous service temperature (in oxidizing atmosphere)	≥ 100° C ≤ 900 ° C
Gas leakage at 30 MPa/6 bars He Temperature 100 to 400 °C Gasket size 90 x 50 mm	≤ 0.15 mg/s/m
Stress	≤ 80 MPa
Thickness	2.00 mm ± 10 %
Sheet size	1200 x 1000 mm ± 4 mm

Other thicknesses and sizes on request.

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