

novaMICA[®] THERMEX

Material profile:

- Gasket material made of refined phlogopite-mica with expanded metal made of chrome-nickel-steel (material-nr. 1.4404; AISI 316 L)

Typical applications:

- For extreme thermal and mechanical applications, especially hot exhaust fumes, as in exhaust systems, exhaust turbo-chargers, compressors etc.
- Process-industry up to 1000 °C

Supply data:

- Sheet sizes in mm: 1200 x 1000
- Thickness in mm: 1.0 / 1.5 / 2.0 / 3.0
- Special sheet sizes upon request
- Other thicknesses upon request

General data	Binders:	silicone resin			
	Anti-stick coating:	not necessary			
	Colour:	green-gold (characteristic of mica)			
	Sheet size and thickness tolerance:	acc. DIN 28 091-1			
Physical properties (Gasket thicken. 2.00 mm)	Property	Standard	Unity	Value *	
	Density	DIN 28 090-2	[g/cm ³]	1.60	
	Tensile strength	longitudinal transverse	DIN 52 910	[N/mm ²]	35
				[N/mm ²]	35
	Residual stress $\sigma_{dE/16}$	300 °C	DIN 52 913	[N/mm ²]	32
	Compressibility	ASTM F 36 J	[%]	25	
	Recovery	ASTM F 36 J	[%]	30	
	Cold compressibility ϵ_{KSW}	DIN 28 090-2	[%]	20	
	Cold recovery ϵ_{KRW}	DIN 28 090-2	[%]	5	
	Hot creep $\epsilon_{WSW/300}$	DIN 28 090-2	[%]	10	
	Hot recovery $\epsilon_{WRW/300}$	DIN 28 090-2	[%]	2	
	Recovery R	DIN 28 090-2	[mm]	0.04	
	Thermal conductivity (perpendicular)		[W/(m·K)]	0.3	
	Dielectric strength	IEC 243 - 23 °C	[kV]	30	
	Specific leakage rate 20 °C / 5 bar	DIN 28 090-2	[mg/(m·s)]	3	
Specific leakage rate 500 °C / 5 bar	DIN 28 090-2	[mg/(m·s)]	0.8		

* = Mode (typical value)

Issue: 11.09

Modifications: 1

Supersedes all prior versions

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 flanged joint.

We reserve the right to product changes which serve the purpose of technical progress.