

# K-Mica


## Gasket Sheets

K-Mica is a material containing a high percentage of phlogopite mica paper impregnated with a silicone binder. Mica, an aluminosilicate of mineral origin, has a lamellar and nonfibrous structure representing a satisfactory alternative to asbestos. This material gives 'K-Mica' its thermal characteristics – weight loss at 800°C (1472°F) less than 5 % - and its chemical resistance to solvents, acids, bases and mineral oils.

K-Mica ensures the sealing in applications where temperatures up to 1000°C (1832°F) can be reached. Gaskets made of K-Mica are used in automobile exhaust manifolds, gas turbines, gas and oil burners, heat exchangers, and in other flange connections. It is also used as filler for spiral wound gaskets and as a material for Kamprofile seals.

K-Mica sheets are reinforced with steel foil, which enables the product to withstand the dynamic stresses from the flow of the exhaust gases.

## K-Mica

Parameters	K-Mica	
Thickness, mm	1-3	Tanged Steel Insert 
Dimensions, mm	1000x1200	
Reinforcement material, mm	Steel AISI 316 (0,1mm)	
Maximum Operating Temperature, °C	1000	
Mica content, %	>90	IEC 60371-2
Density, gr/cm <sup>3</sup>	1,9 ± 0,1	IEC 60371-2
Weight Loss, %	<5	DIN 52911
Tensile strength, N/mm <sup>2</sup>	20	DIN 52910
Compressibility, %	15-35	ASTM F36-J
Elastic Recovery, %	30-45	ASTM F36-J
Creep relaxation* at 50 MPa - 300 oC, N/mm <sup>2</sup>	40	DIN52913

\*The measurement was performed on K-Mica with a pegged steel insert

- Data are average results of laboratory tests conducted under standard procedures and are subject to variation. These do not constitute a warranty or representation for which we assume legal responsibility.



**K. MITSIOPOULOS – V MEGALOOIKONOMOU Co**  
17, Kononos Street, 18545, Piraeus Greece  
Tel: 210-4176393, Fax: 210-4176737  
e-mail: info@kmmb.gr