Mica

Article description: SW-TEMP

Article forms: Available as a plate product
Plug-in seals, cut or die-cut seals
Optionally with metal insert

Colour: Gold

Preparations: Without any additionally preparations

Materials: Phlogopit content IEC 60371-2 min. 90 %
Silicone binder content IEC 60371-2 max. 10 %

Mechanical properties:

Properties	Test method	
Density	IEC 60371	1,7 – 2,15 g/cm³
Weight loss (at 500 °C)	IEC 60371	< 3 %
Dielectric strength	IEC 60243	ca. 14 kV/mm
Volume resistace	IEC 60093	~ 10^{15} Ω/cm bei 23 °C ~ 10^{10} Ω/cm bei 500 °C
Max. pressure		5 bar
Flamability rating	UL94	V-0

Thermal properties:

- Continuous temperature up to 600 °C
- Short-term 800 °C possible
- Thermal resistance (2 hours at 800 °C): Thickness increase stable

Chemical properties:

- Good chemical resistance against solvents, acids, alkalis and mineral oils

Applications:

The mica SW-TEMP material can be used in exhaust manifolds for automobiles, gas turbines, gas and oil burners, heat exchangers, refineries, the chemical industry, the medical industry, the petrochemical industry, turbo-generator fuel cells and other flange connections. Furthermore, it serves as a filler for spiral wound gaskets.

Dimensions: Plate sizes depending on the plate thickness (1200 x 1000 mm) *
Length max. 2400 mm *
Thickness 0.1 - 5 mm *
* Further plate sizes and thicknesses on request