

# Technical Data Sheet

## **SW-TEMP** (flexible mica sheets for sealing & gasket applications)

**Description:** **SW-TEMP** has a flexible texture and elasticity, and an outstanding performance as high thermal insulation.

**SW-TEMP** resists operating temperatures up to 1,000 °C. Gaskets/seals made of **SW-TEMP** are used in a broad range of industries:

- automotive (exhaust manifolds)
- gas & oil
- chemical & petrochemical
- medical
- fuel cells
- gas turbines
- turbo generators

It can also be used as filler for spiral wound gaskets or as a material for cam profile gaskets.

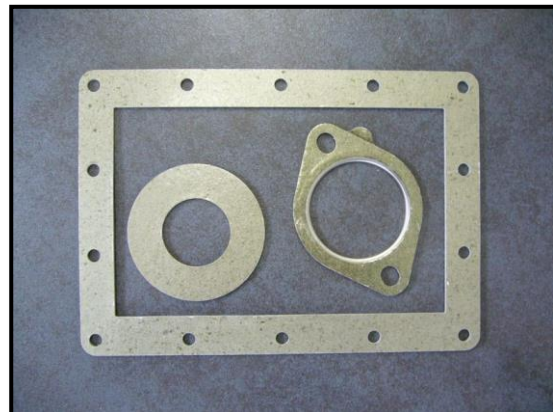
**Composition:** **SW-TEMP** is made from min. 90% high-grade Phlogopite mica paper impregnated with a high temperature resistant silicone binder.

Phlogopite mica (= aluminosilicate of mineral origin) gives **SW-TEMP** it's thermal characteristics & outstanding resistance to solvents, acids and mineral oils.

**Delivery form:**

Thickness:	0.1 mm – 0.3 mm	± 0.02 mm
	0.4 mm – 0.6 mm	± 0.03 mm
	0.7 mm – 1.0 mm	± 0.04 mm
	1.1 mm – 1.95 mm	± 0.06 mm
	2.0 mm – 6.00 mm	± 7.00 %
Width:	1,000 mm	± 0.20 %
Length:	max. 2,400 mm	± 0.20 %

Customized strips or parts according to customers' drawings and/or requirements.



# Technical Data Sheet

## **SW-TEMP** (flexible mica sheets for sealing & gasket applications)

<u>Technical Data</u>	
Mica content: (IEC 60371-2)	≥ 90 %
Bond content (Silicone): (IEC 60371-2)	≤ 10 %
Density: (IEC 60371-2)	~ 1.90 g/cm <sup>3</sup>
Max. Pressure:	5 bar
Heat resistance: in continuous service in intermittent service	700 °C 900 °C
Thermal conductivity: at 200°C at 400°C at 600°C (DIN 52612)	~ 0.20 W/(m·K) ~ 0.35 W/(m·K) ~ 0.60 W/(m·K)
Weight loss: at 800°C (DIN 52911)	≤ 5 %
Tensile strength: (ISO 178)	~ 20 N/mm <sup>2</sup>
Dielectric strength: at 20°C (IEC 60243)	~ 20 KV/mm
Creep relaxation: (DIN 52913)	~ 40 N/mm <sup>2</sup>
Compressibility: (ASTM F36-J)	25 %
Elastic recovery: (ASTM F36-J)	40 %

**Conformity:** Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH)

Directive 2011/65/EU on the Restriction of the use of certain Hazardous Substances in Electrical and Electronic Equipment (RoHS)

Classification V-0 by UL94 for Flammability Tests of Plastic Materials for Parts in Devices and Appliances

Full details can be found in our certificates and declarations of conformity.

**Note:** These technical data are average results of laboratory tests conducted under standard procedures and are subject to variations, and do not constitute a warranty or representation for which we assure legal responsibility