

BANSAL INSULATION & MICA SHEET

Technical Data Sheet

MICANITE RIGID M & P (rigid mica sheets)

Application: **BH-MICANITE RIGID M & P** sheets are specially developed for providing outstanding thermal and electrical insulation for various heating elements used in household and industrial appliances such as hair dryers, tumble dryers, strip heaters,... and for all other applications where excellent resistance to thermal, mechanical and electrical properties are required.

Fire resistance classification UL94 (94 V-0), BS 479 (class 1), NBN 21-203 (A1). NFF16-101/2 (M0 u. F0), IEC 60371-3-3 conformity.

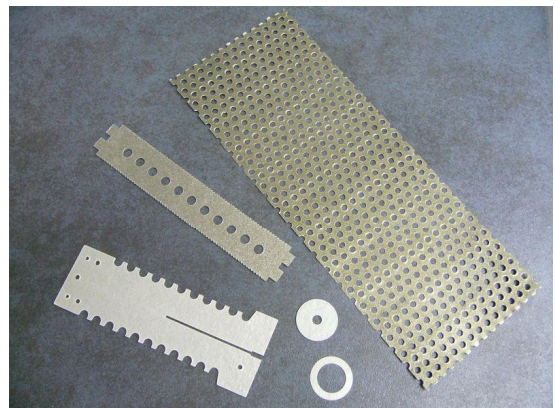
Composition: **BH-MICANITE RIGID M & P** sheets consist of minimum 90% Muscovite alternatively Phlogopite impregnated with an outstanding high temperature resistant silicone resin.

Supply Form: Thickness: 0.10 – 1.90 mm \pm 0.05 mm
Size: 1000 mm width, max. 1000 mm length \pm 1.0 mm
Customized strips or punched parts according to customers' drawings and/or requirements.

Processing: **BH-MICANITE RIGID M & P** sheets can be easily punched. Tools for punching precise parts should be provided with spring loaded hold-down plates.

"SSQ" Special

Surface Quality: **BH-MICANITE RIGID M & P "SSQ"** is a rigid mica sheet (Muscovite alternatively Phlogopite) with a higher density, a higher flexural strength and a smoother surface (obtained by steel pressing). The **"SSQ"** quality is most suitable for punching highly detailed pieces or when imprinting is required.



BH -MICANITE RIGID M & P (rigid mica sheets)

Technical Data	Muscovite	Phlogopite
Mica Content: (IEC 60371-2)	min. 90 %	min. 90 %
Silicone Binder Content: (IEC 60371-2)	max. 10 %	max. 10 %
Density: (IEC 60371-2)	2.15 g/cm ³ (SSQ = 2.25 g/cm ³)	2.15 g/cm ³ (SSQ = 2.25 g/cm ³)
Heat Resistance: In Continuous Service: In Intermittent Service:	500 °C 800 °C	700 °C 1000 °C
Tensile Strength: (ISO 527)	140-150 N/mm ²	100-110 N/mm ²
Flexural Strength: (ISO 178)	200 N/mm ² (SSQ = 230 N/mm ²)	150 N/mm ² (SSQ = 200 N/mm ²)
Water Absorption: (ISO 62)	<1 %	<1 %
Dielectric Strength: (IEC 60243 at 20°C)	>20 KV/mm	>20 KV/mm
Insulation Resistance: at 23°C: at 550°C: (IEC 60093)	>10 ¹⁷ Ωcm >10 ¹² Ωcm	>10 ¹⁷ Ωcm >10 ¹² Ωcm
Heat Loss: at 500°C: at 700°C: (IEC 60371-2)	<1 %	<1 % <2 %
Thermal Expansion: Perpendicular: Parallel:	100 x 10 ⁻⁶ /°K 10 x 10 ⁻⁶ /°K	100 x 10 ⁻⁶ /°K 10 x 10 ⁻⁶ /°K
Tracking Resistance:	KA 3c (VDE 0303/1)	KA 3c (VDE 0303/1)

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.