

Technical Data Sheet – KLINGER MICA laminate

KLINGER MICA laminate - Flexible Mica Sheets for Sealing & Gasket Applications

KLINGER MICA laminate has a flexible texture and high elasticity, offering outstanding performance as high thermal insulation material. It can withstand maximum application temperatures of up to 1,000 °C. Gaskets/seals made of KLINGER MICA laminate are used in a variety of industries:

- » Automotive (exhaust manifolds, fuel cells, turbo generators)
- » Chemical & Petrochemical (gas & oil)
- » Wind turbines
- » Medical Technology

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

Technical Specifications:

| | |
|---------------------------------|---|
| Mica Content (IEC 60371) | ≥ 90% Phlogopite |
| Binder Content (IEC 60371) | ≤ 10% |
| Density (IEC 60371) | 1.70 – 2.15 g/cm ³ |
| Dielectric Strength (IEC 60243) | ~ 14 KV/mm |
| Compressibility (25°C – 50 MPa) | 16% |
| Recovery (25°C – 50 MPa) | 5% |
| Heat Resistance (Continuous) | 600 °C |
| Heat Resistance (Intermittent) | 800 °C |
| Volume Resistance (IEC 60093) | ~ 10 ¹⁵ Ω/cm (23°C) ~ 10 ¹⁰ Ω/cm (500°C) |

KLINGER MICA laminate is made from at least 90% high-grade Phlogopite mica paper impregnated with a high temperature-resistant silicone binder, giving it excellent thermal properties and resistance to solvents, acids, and mineral oils.

The values provided in this technical data sheet are average values determined by standard procedures. We and our supplier does not assume any guarantee for this information and excludes any legal responsibility. Product specifications are subject to change without notice.

Date: 2024/11/01