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MICA FM HIGH



FM-HIGH® is a gasketing sheet for flat gaskets made of expanded mica, manufactured using vermiculite – a mineral-based phosphosilicate with a lamellar structure – and reinforced with a perforated AISI 316L stainless steel foil insert. FM-HIGH® retains the characteristics of lamellar vermiculite mica, which, combined with heat-resistant biosoluble fibres, NBR rubber and reinforced by the perforated AISI 316L stainless steel insert, give the product excellent thermal, chemical and mechanical resistance.

High thermal resistance: it is ideal for industrial applications requiring a robust and durable gasket, ensuring optimal performance even under the most extreme conditions. The expanded vermiculite sheets help to make the product lightweight and thermally resistant, whilst the heat-resistant biosoluble fibres further enhance its resistance to high temperatures.

Superior stability and flexibility: the perforated SS316L tanged insert provides a solid structure, whilst the vermiculite mica, combined with heat-resistant biosoluble fibres and NBR rubber, provides flexibility and resistance to external agents.

Excellent workability: easy to die-cut and CNC-cut, ensuring precision even for complex geometries.

High resistance to high temperatures: ideal for applications requiring a long-lasting airtight seal and resistance to extreme temperatures. The product's minimal weight loss further contributes to its superior performance.

Operating temperature: Its unique chemical formulation allows for reliable use up to 950°C, ensuring strength, durability and reliability even under critical conditions.

Operating temperature: up to +950°C depending on the type of fluid and the applied load.

Mica	Mica FM High
Composition	Expanded Mica and biosoluble fiber bonded to a SS316L tanged core
Density ASTMF 1315	1.60-1.90 g/cm³
Max recommended Peak Temperature	950 °C
Max operating pressure	60 bar
Leakage DIN 3535-6	<0.1* mg*s-1*m-1
Creep relaxation DIN 3535-6	<18 %
Compressibility DIN 3535-6	>20 %
Recovery DIN 3535-6	>2.2 %
Available sheets size	1500x1500 mm 1000x1000 mm
Available thickness	from 1 to 3 mm
Sheet size tolerance	50 mm
Thickness tolerance	10 %

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