MEGATHERM R PLANIX™

Composition

- Phlogopite mica impregnated with silicone resin
- Perforated SS316L support sheet

Characteristics

The presence of flogopite mica, silicone resin, and the perforated SS316L metal support make MEGATHERM R an outstanding option for applications requiring superior performance. This gasket sheet offers exceptional thermal resistance, advanced chemical resistance, and superior durability compared to traditional gaskets made of ceramic fiber or similar materials. MEGATHERM R stands out for its ability to maintain performance even in extreme environmental conditions. The perforated SS316L metal support provides a solid structure, while flogopite mica and silicone resin provide flexibility and resistance to external agents.

Applications

Designed for the production of flange gaskets, MEGATHERM R is ideal for situations where the use of graphite gaskets is not possible due to high temperatures or the presence of oxidizing fluids. This sheet offers reliable and long-lasting performance in a wide range of industrial applications, overcoming the limitations of traditional gaskets and ensuring efficient and durable sealing.

Tech Data

Material	--	Mica Phlogopite
Tanged Insert SS316L th. 0.10 mm	no.	1
Colour	--	Gold Brown
Density	g/cm³	1.75 ÷ 2.05
Max recommended Temperature in Air	°C	900
Maximum Pressure Service (°C R.T./H.T.)	bar	60 / 2
Leakage DIN 3535-6	$mg \cdot s^{-1} \cdot m^{-1}$	< 0.10
Creep Relaxation DIN 3535-6	%	< 12
Compressibility DIN 3535-6	%	> 16
Recovery DIN 3535-6	%	> 3
Weight Loss at 900°C after 60 min	%	< 3.50
Thermal conductivity DIN 52612	W/m·K	0.20
Dielectric Strength IEC 60243	kV/mm	> 16

- Never use the product at its maximum rated temperature and pressure simultaneously. Consult the manufacturer for further information.
- Other gasketing sheet dimensions and thicknesses are available on request.
- The dimensional tolerances of the gasketing sheets are: W and L ±3.0%, H ±10.0%.

Size	1.000 x 1.000 mm / 1.500 x 1.500 mm	40” x 40” / 60” x 60”
Thickness	1.0 ÷ 3.0 mm	3/64” ÷ 1/8”

Megatherm R Planix™

The Planix Megatherm range includes a complete selection of gasket sheets designed for high-temperature services with oxidizing fluids that cannot be handled by graphite gaskets.

The products are manufactured using both vermiculite, treated with special biosoluble fibres, and phlogopite mica in order to offer customers a wide choice.

The unreinforced sheets are also suitable as insulating materials thanks to the high dielectric strength of vermiculite and mica.

- **Planix Megatherm High**
  - Vermiculite sheet with metallic support
- **Planix Megatherm R**
  - Phlogopite mica sheet with metallic support
- **Planix Megatherm S**
  - Phlogopite mica sheet without metallic support

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GLOBAL SEALING SOLUTIONS

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