



MEGATHERM R PLANIX™

Composition

MEGATHERM R is a gasket sheet that combines the robustness of flogopite mica, the versatility of silicone resin, and the perforated SS316L metal support. The balanced composition of these materials gives the product excellent thermal, chemical, and mechanical resistance.

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

Megatherm R		
Compressibility ASTM F36	%	38
Recovery ASTM 36	%	9
Weight Loss at 800°C after 60 min	%	<3.50
Max recommended Temperature in Air	°C	900
BS stress retention at 300°C	N/mm2	25
DIN stress retention at 300°C	N/mm2	35
Thermal conductivity DIN 52612	W/m°K	0.20
Dielectric Strength IEC 60243	KV/mm	>16
Maximum Pressure Service		
Room Temperature	bar	60
High Temperature	bar	2
Colour		Gold Brown

- Never use the product to the maximum temperature and pressure associated. 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 $\pm 3,0\%$, H $\pm 10,0\%$

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"



The information in this publication, as well as any additional information provided to users, is based on experience and is shared to the best of our current knowledge. However, due to numerous factors beyond our knowledge and control that may affect the use of these products, no warranties are provided or implied regarding this information. The operating limits presented in this publication do not imply that these values can be applied simultaneously. Do not use the product at the maximum temperature and pressure values simultaneously. The maximum temperature is suitable only for short-term exposure under specific conditions. Specifications are subject to change without prior notice. The picture in the DS may not accurately depict the exact color and/or markings of the product.



Megatherm R Planix™

The Planix Megatherm range includes a complete set of gasketing sheets intended for high temperature services with oxidizing fluids that cannot be handled by graphite gaskets. The products are made both with vermiculite treated with special bio-soluble fibers and with phlogopite mica to offer a wide choice. The sheets without reinforcement are also suitable as an insulating material due to the high dielectric value of the mica.

- **Planix Megatherm High**
 - Vermiculite reinforced gasketing sheet
- **Planix Megatherm R**
 - Mica Phlogopite reinforced gasketing sheets
- **Planix Megatherm S**
 - Mica Phlogopite without reinforcement
- **Planix Megatherm Filler**
 - Mica Phlogopite for semi-metallic gaskets

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