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## TECHNICAL DATA

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### MICA SHEET FS 166M & FS 166P



#### DESCRIPTON

FS mica sheets consist of two grades of mica paper bonded with a silicone resin system.  
FS 166M employs muscovite mica paper, FS 166P employs phlogopite mica paper.  
Both grades are flame retardant to UL 94-5V.

#### APPLICATIONS

FS 166M & FS 166P mica sheets are employed in a variety of high temperature insulation applications such as:

- Wound element formers
- Cover plate insulation
- Heating element insulation
- Thermal barriers
- Electrical insulation

#### PHYSICAL PROPERTIES

Thickness range	0.12mm - 75mm
Sheet size	1200mm x 1000mm & 2000mm x 1000mm
Resin system	Silicone, 10 - 15%
Operating temperature	FS 166M 600 - 700°C
Adhesion to steel	FS 166P 800 - 900°C
Density	2.0 Mg/m <sup>3</sup>
Flexural strength	200 Mpa
Loss tangent (tan delta)	0.005
Electric strength	25 MV/m
Flammability	UL 94-5V
UL File No	QMFZ2.E228455
Coefficient of expansion (Normal to plane)	60 x 10 <sup>-6</sup> cm/cm°C
Thermal conductivity	5 x 10 <sup>-4</sup> to 8 x 10 <sup>-4</sup> Cal/(cm.s.°C)

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