



# MICA PLATE

## TYPES

**STMAT high quality mica plate classified 6 types as follow:**

- ◆RM: Rigid muscovite mica plate
- ◆RP: Rigid phlogopite mica plate
- ◆RM-T: Rigid muscovite mica thick plate
- ◆RP-T: Rigid phlogopite mica thick plate
- ◆FM: Flexible muscovite mica sheet
- ◆FP: Flexible phlogopite mica sheet

**Size:** 1000\*600 mm

1000\*1200 mm

1000\*2400 mm

Normal width is 1000mm,if special-ordered ,we can do 800mm, 850mm,860mm, 870mm, 900mm

Length max is 2400mm

ITEM		UNIT	RM	RP	RM-T	RP-T	FM	FP
Hardness			Rigid	Rigid	Rigid	Rigid	Flexible	Flexible
Mica paper			Muscovite	Phlogopite	Muscovite	Phlogopite	Muscovite	Phlogopite
Thickness		mm	0.1-2.0	0.1-2.0	3.0-50	3.0-50	0.1-2.0	0.1-2.0
Mica content		%	≥ca.90	≥ca.90	>ca.88	>ca.88	≥ca.90	≥ca.90
Bond Content		%	<ca.10	<ca.10	<ca.12	<ca.12	<ca.10	<ca.10
Density		g/m <sup>3</sup>	1.6~2.45	1.6~2.45	2.1~2.4	2.1~2.4	1.6~2.0	1.6~2.0
Heat Resistant	Continuous	°C	500	700	500	700	500	700
	Peak	°C	700	900	700	900	700	900
Heat loss at 500°C		%	<1	<1	—	—	<1	<1
Heat loss at 700°C		%	<2	<2	—	—	<2	<2
Flexural strength		Mpa	>180	>140	—	—	<1	<1
Water absorption 24h/23°C		%	<1	<1	<1	<2	—	—
Dielectric strength		KV/mm	>20	>20	>15	>15	>15	>15
Volume Resistivity	23°C	Ω.cm	>10 <sup>17</sup>	>10 <sup>17</sup>	>10 <sup>17</sup>	>10 <sup>17</sup>	—	—
	500°C	Ω.cm	>10 <sup>12</sup>	>10 <sup>12</sup>	>10 <sup>12</sup>	>10 <sup>12</sup>	—	—
Flame Resistance			90V0	90V0	94V0	94V0	90V0	90V0
Smoking Test		s	<4	<4	—	—	—	—

## Specific and Technic

Leading insulation materials supplier  
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# MICA TUBE

STMAT Mica tube is high density tube ,it formed by muscovite paper , phlogopite paper or synthetic mica paper fixed with silicon resin, and processed by roll It has good dielectric capability and excellent mechanical strength, and often used in all kinds of form.electric equipments, motors, furnaces, electric-arc furnaces, other metallurgy industry equipments.Mica tube is 10~1000mm lengthSpecial size and tolerance can be determined by agreement.



Tolerance for Mica tube		
Internal diameter (mm)	Tolerance of ID(mm)	Tolerance of OD(mm)
<3	±0.2	±0.2
10 ~ 20	±0.2	±0.2
21 ~ 50	±0.2	±0.2
51 ~ 100	±0.3	±0.3
101 ~ 200	±0.3	±0.3
201 ~ 300	±0.3	±0.3
301 ~400	±0.3	±0.3
401 ~ 500	±0.3	±0.3
Length: 10mm to 1000mm		

# MICA PARTS

## Mica Machined Parts

Thick mica parts

Thickness:  $T > 2\text{mm}$

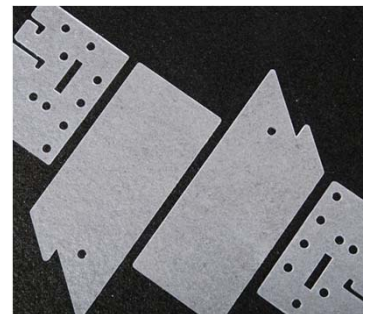
Thick mica parts can not be made from a mold.It need machine of mill in cutting,lathe, drill etc.

## Mica Punched Parts

Thin mica parts

Thickness:  $0.1\text{mm} \leq T \leq 2\text{mm}$

Laminated mica parts are prepared by the mold and fabricated by drawing.



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