

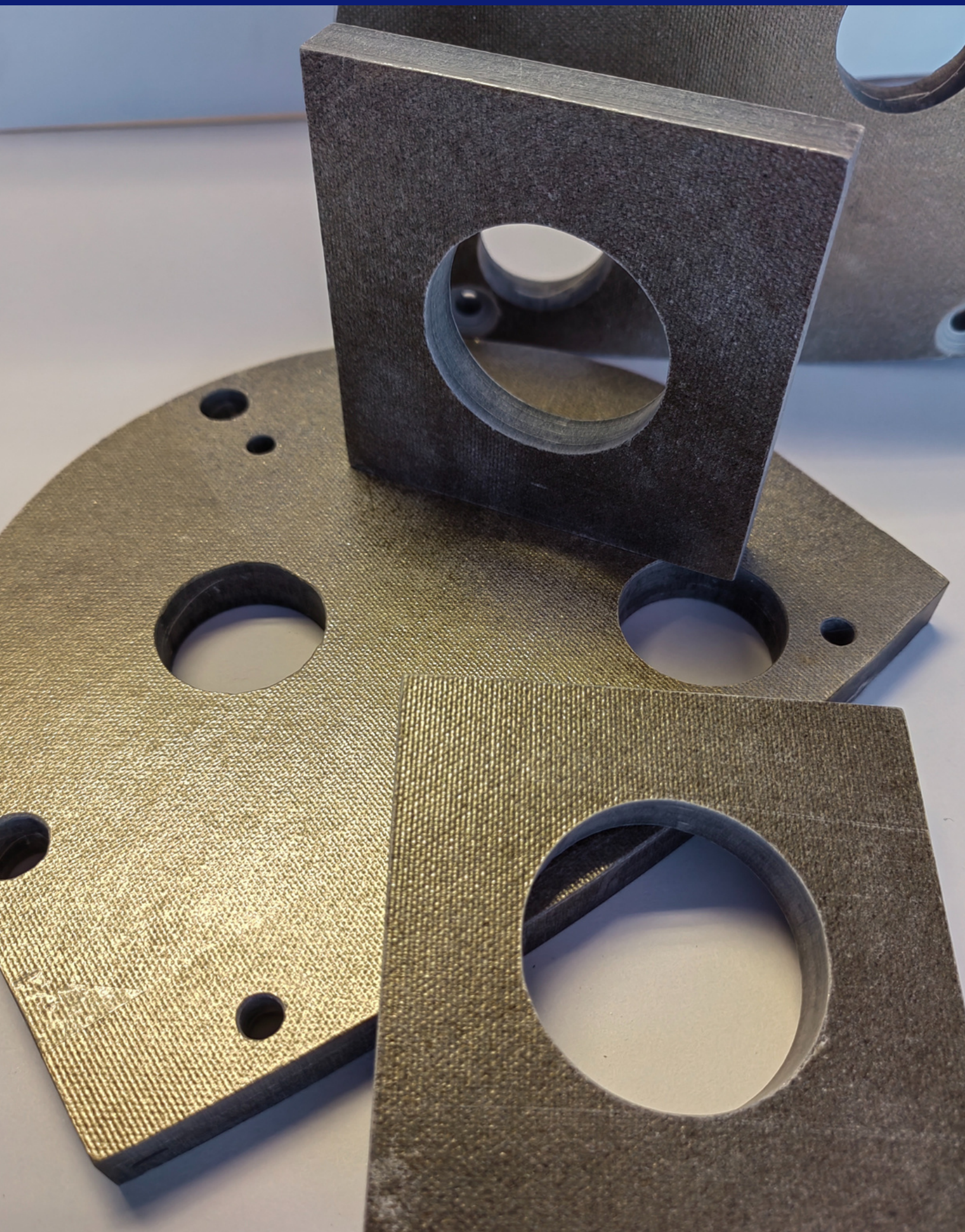


DEMS

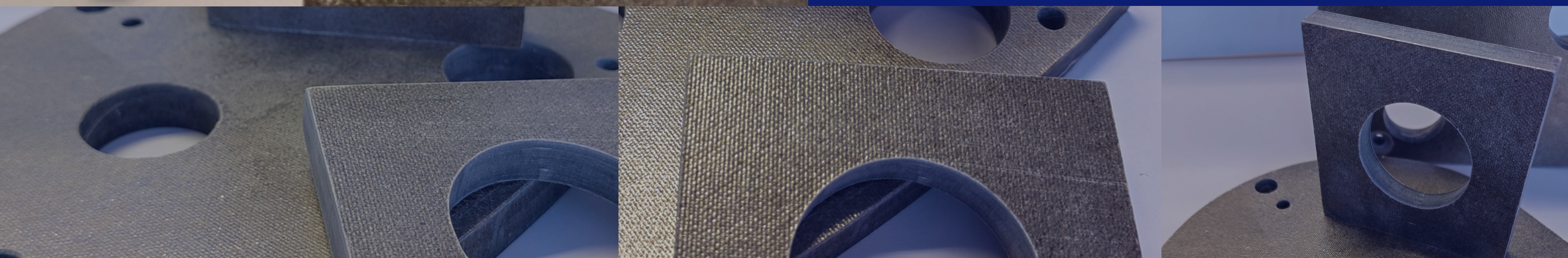
Mica

Mica consists of multiple layers of Muscovite or Phlogopite Mica paper impregnated with a Silicon binder.

Mica has excellent mechanical, thermal & electrical properties.



- Colour : Silver
- Dielectric strength :
>20 kv/mm
- Temperature :
Muscovite >500°C
Phlogopite >700°C
- Applications :
Insulation between high temperature heat platens and moulds.
Insulation in induction arc furnaces.



 **DEMS**

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DATA SHEET MICA

<u>PROPERTY</u>	MICA MUSCOVITE	MICA PHLOGOPITE	UNITS
THICKNESS RANGE	0.4-30	0.4-50	
<u>ELECTRIC PROPERTIES</u>			
DIELECTIC STRENGTH	15	15	KV/mm
ARC RESISTANCE	300	300	S
SURFACE RESISTANCE	10^{13}	10^{13}	Ohms
DIELECTRIC CONSTANT	3.8	3.8	Min
COMPARATIVE INDEX	600	600	V
<u>THERMAL</u>			
CONTINUOUS TEMPERATURE	500	700	°C
THERMAL EXPANSION	4.7×10^{-5}	4.7×10^{-5}	u/u/k
THERMAL CONDUCTIVITY	0.16	0.16	W/mk
<u>MECHANICAL</u>			
TENSILE STRENGTH	100	100	MPa
FLEXURAL STRENGTH	130	130	MPa
DENSITY	2.1	2.1	g/cm ²
WATER ABSORPTION	1	1	%