

EST™ M Paper

Product Data Sheet



Product Description

EST M Paper is a mica laminated paper uniquely designed from Superwool® bulk and organic binders. EST M Paper is specially processed to offer excellent performance in high temperature and dielectric applications.

Superwool provides stability and resistance to chemical attack. Exceptions include hydrofluoric acid, phosphoric acid and strong alkalis (i.e. NaOH, KOH). Superwool is unaffected by incidental spills of oil or water. Thermal and physical properties are restored after drying.

Benefits

- High water absorption resistance
- High dielectric strength
- Low thermal conductivity
- Excellent finished surface
- Lightweight
- Non-combustible

Applications

- Module-Module level protection for lithium ion battery packs
- Pack level protection for lithium ion battery packs

Environmental & Health Safety

Superwool low bio-persistent fibres are exonerated and are not classified as carcinogenic by IARC or under any national regulations on a global basis. They have no requirements for warning labels under GHS (Globally Harmonised System for the classification and labelling of chemicals).

In Europe, Superwool fibres meet the requirements specified under NOTA Q of European Directive 67/548. All Morgan Advanced Materials Superwool low bio-persistent fibre products are therefore exempt from the classification and labelling regulation in Europe.

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		EST M Paper
Colour		Gold / White
Classification Temperature, °C (°F)		1100 to 1300 (2012 to 2372)
Dielectric Breakdown, kΩ		>2
Dielectric Resistance, Ω/V		>2 x 10 ⁹
Volume Resistivity, Ω•cm		>10 x 10 ¹¹
Withstand Voltage, kV, 2 minutes		>2
Thermal Performance @ 600°C (1112°F), 20 minutes		
	1mm (0.04) thickness	<230°C (<446°F)
	3mm (0.12) thickness	<200°C (<392°F)
	6mm (0.24) thickness	<140°C (<284°F)

Whilst the values and application information in this datasheet are typical, they are given for guidance only. The values and the information given are subject to normal manufacturing variation and may be subject to change without notice. Morgan Advanced Materials – Thermal Ceramics makes no guarantees and gives no warranties about the suitability of a product and you should seek advice to confirm the product's suitability for use with Morgan Advanced Materials - Thermal Ceramics.