CCEWOOL Thermomax Inc.
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www.ccewool.com

CCEWOOL® Polycrystalline Wool Fiber Paper

Temperature Grade 1600℃（2912℉）

CCEWOOL® Polycrystalline Wool Fiber Paper is engineered for extreme high-temperature environments, with continuous service capability up to 1600°C (2912°F).

Manufactured from high-purity alumina fibers combined with carefully selected binders, it is produced using advanced technology to ensure uniform fiber distribution and precise control over thickness and density.

The product offers exceptional flame resistance, thermal insulation, electrical insulation, and outstanding resistance to both high/low temperatures and aging. It is halogen-free, non-toxic, odorless, and features a high dielectric constant, providing reliable thermal and fire protection for equipment.

Lightweight, flexible, and free from shot content, CCEWOOL® Polycrystalline Fiber Paper is easy to cut and process, and can be used directly for high-temperature insulation or encapsulated for use in electrical equipment, electronic devices, battery cells, and other applications requiring insulation, fire resistance, and thermal protection.

Characteristics:

Excellent high- and low-temperature resistance, with an operating range of -200°C to 1300°C;

Outstanding electrical insulation and aging resistance;

Exceptional acid and alkali resistance, with strength retention above 90% after exposure to strong acids and bases;

Superior thermal insulation performance;

Low smoke, non-toxic, and excellent flame retardancy;

Compliant with EU RoHS Directive.

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Application:

Thermal insulation and fire protection for battery cells;

Insulation and flame retardancy for electronic products;

Aerogel thermal insulation composite materials;

Sealing for high-temperature equipment;

Thermal insulation lining for furnace walls;

Resin-based thermal insulation and fireproof composites.

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CCEWOOL® Polycrystalline Wool Fiber Paper		
Test Item	**Standard**	**Technical Specifications**
Appearance	-	Smooth , no impurities
Insulation Performance 1000V DC	Under condition of 1000V DC, test time 60s	Insulation resistance≥500MΩ
Fiber Diameter	-	5.5~7.5μm
Tensile Strength	GBT 17911-2018	≥200kPa
Flame Retardance Property	UL94-V0	Complies with Standards
Thermal Conductivity	GB/T 10297-2015	≤0.04w/m·k
ELV	EU ELV Directive 2000/53/EC	Complies with Standards

Specification								
Thickness (mm)	0.30	0.60	0.80	1.00	2.00	3.00	4.00	5.00
Area Density (g/m2)	20	60	80	100	250	400	550	700