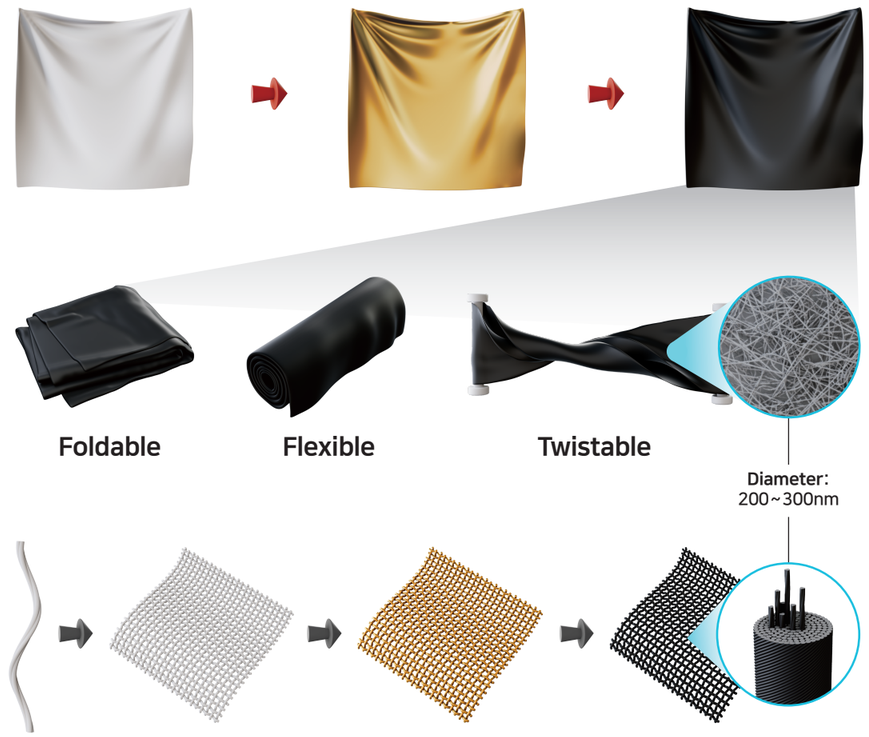
The MoaNano

Polyimide Nanofibrous Membrane and Carbon Nanofibrous Membrane



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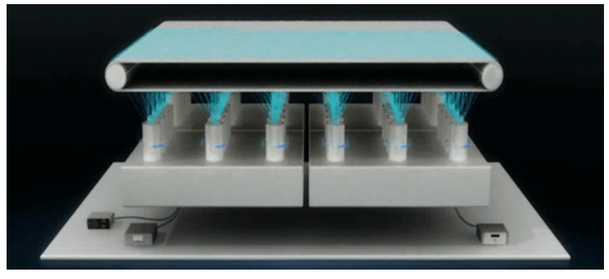
INTRODUCTION

TheMoaNano Co., Ltd. is a company that develops and produces polymer solutions, nanofibers, and carbon nanofibers using polymerization systems and electrospinning systems related to polyimides. Additionally, the company manufactures material components, including cathode materials related to secondary batteries and energy, using flexible carbon nanofibers based on polyimides.

TECHNOLOGY



Nanofiber Mass Production Technology

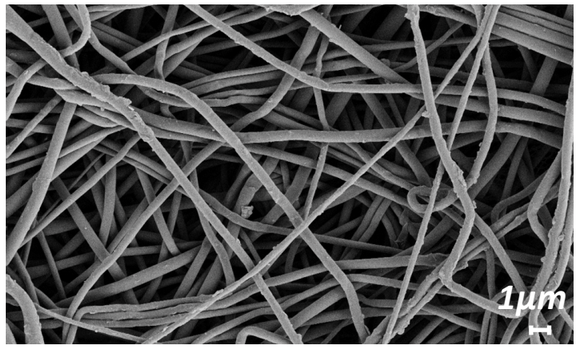
Imidization and Carbonization Technology

• Nanofiber Mass Production Technology

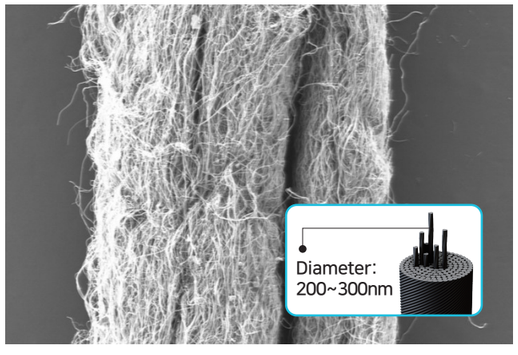
- Manufacturing nanofiber membranes using special nozzles and solution supply devices
- Possessing mass production technology for polyamic acid nanofiber membranes with a width of over 60cm

• Imidization and Carbonization Technology

- Secured imidization technology using furnace equipment
- Secured carbonization technology using furnace equipment



Nanofiber SEM image



Nanofiber Filament

PRODUCTS

• Polyimide Nanofibrous Membrane

- High heat resistance and chemical resistance
- Special industrial materials such as EV (Electric Vehicle) motor insulation and secondary battery separators.

• Carbon Nanofibrous Membrane

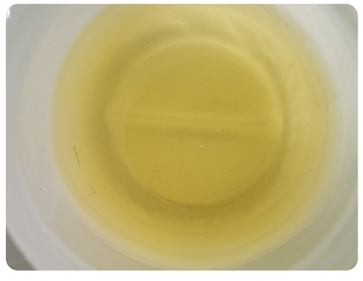
- Possesses excellent porosity and specific surface area characteristics
- Exhibits superior flexibility and lightweight properties

• Polyimide Nanofiber Tube

- Artificial blood vessel (solventless, small diameter, stable suturing, No kink)
- Excellent flexibility
- Vascular graft tube
- Artificial blood graft

• Carbon Nanofiber Fabric

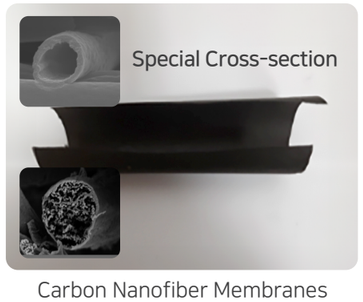
- Composed of filaments with diameters ranging from 200 to 300nm
- Exhibits excellent flexibility and high electrical conductivity
- Functions effectively as a material for heating and thermal insulation



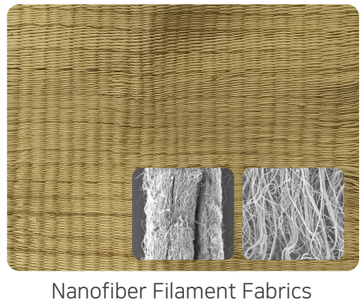
Polyamic Acid Polymer Solution

Nanofiber Membranes

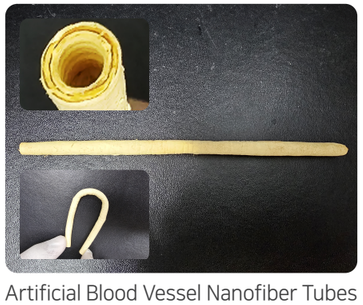
Polyimide Nanofiber Membranes



Carbon Nanofiber Membranes



Nanofiber Filament Fabrics



Artificial Blood Vessel Nanofiber Tubes