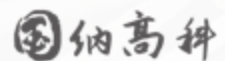


GUONATEC[®]



PFAS Free, DMF Zero, 100% Performance



DMF Zero



PFAS Free



Highly Elastic



**Waterproof &
Breathable**



**Lightweight
& Soft**



Windproof

Guona High-Tech (Anhui) Co., Ltd.

Company Profile

Guona High-Tech (Anhui) Co., Ltd.

Specializing in the R&D, production, and sales of nanofiber materials. Leveraging an annual production capacity of 5 million meters through mass-production electrospinning technology, the company primarily manufactures fluorine-free nanofiber waterproof/breathable membranes and high-efficiency, low-resistance nanofiber filter materials. With over 30 patents, its products are widely applied in outdoor apparel, electronics, the automotive industry, and industrial filtration. The company is dedicated to establishing itself as a leading domestic enterprise in the field of nanofiber new materials.



■ Our Advantages

01

PFAS-Free & Eco-Friendly

Centered on internationally leading PFAS-free materials, we are committed to green and sustainable development. Focused on developing recyclable nylon and bio-based polyurethane materials, we provide eco-friendly solutions for the apparel industry from source to recycling.

02

Independent R&D

With three-dimensional innovation in electrospinning equipment, technology and materials as our core competitiveness, the produced nanofiber membranes have reached world-leading levels in uniformity and stability. Boasting outstanding production capacity advantages, our core technologies are supported by multiple independent patents.

03

Mass Production Capacity

Mass-production equipment (Patent No. ZL202111141056.5): 2 meters in width, with an annual output of 5 million meters. Independently developed control system (Patent No. ZL202221517819.1/17.2): Multi-dimensional regulation ensures product uniformity and stability, building a solid quality barrier.

■ Production Capacity

GUONATEC®



Annual Output

5 Million Meters

Currently, 7 intelligent production lines, supporting laboratories and testing equipment have been built at the Huainan base, with an annual production capacity of 5 million meters for nanofiber membranes.



Width

2.2-2.8 Meters

We have successfully developed a mass-production high-voltage electrospinning production line with a width of 2.2-2.8 meters, filling the domestic gap and reaching a global leading level in the PFAS-free field.



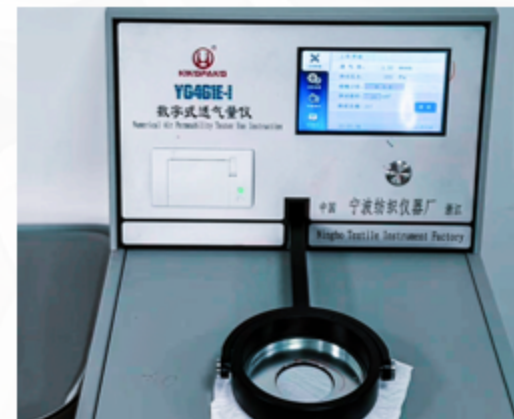
Scanning Tunneling
Microscope



Automatic Hydrostatic Tester



Jungle Aging Tester



Digital Air Permeability Tester

Product Introduction

GUONATEC®

PFAS-Free Nanofiber Membrane

It is made by processing PFAS-free hydrophobic polymers into nanofibers, forming a three-dimensional network structure with small pore size and high porosity. It achieves efficient waterproofing while ensuring excellent air permeability, making it an advanced membrane material that combines environmental safety and superior performance.

- 

DMF Zero
- 

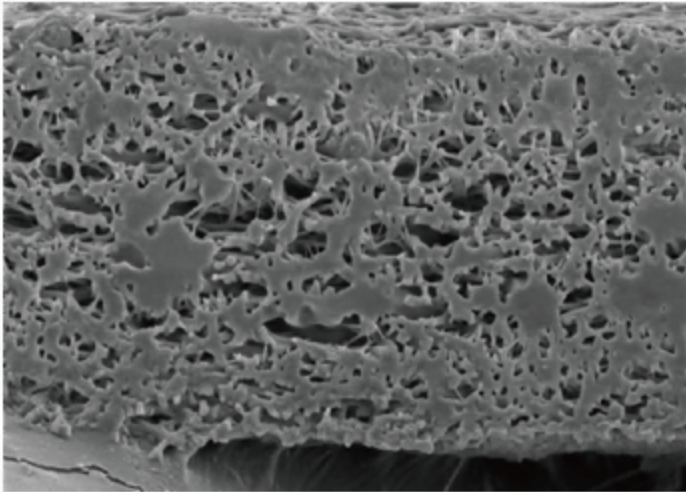
PFAS Free
- 

Windproof
- 

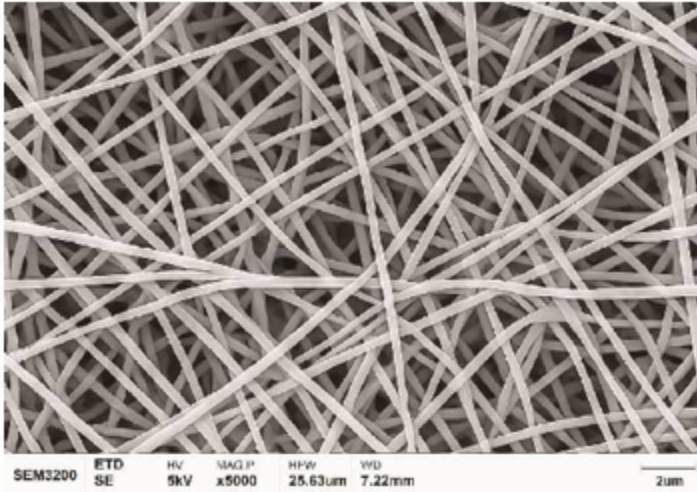
Waterproof & Breathable
- 

Lightweight & Soft
- 

Highly Elastic



Cross-Section of Nanomembrane



5000x SEM Image of Nanofiber Membrane

PFAS-Free & Eco-Friendly

Compliant with EU REACH/POPS Regulations

Report No. **25.0.91210**
Page 2 of 5 pages



The following material was submitted for the tests

Sample
1 Airshift membrane, white

TEST ITEMS	PASS	FAIL	REMARK
Per-and polyfluoroalkyl substances (PFAS)	X		

<Sample photo>

TEST ITEMS	PASS	FAIL	REMARK
Per-and polyfluoroalkyl substances (PFAS)	X		



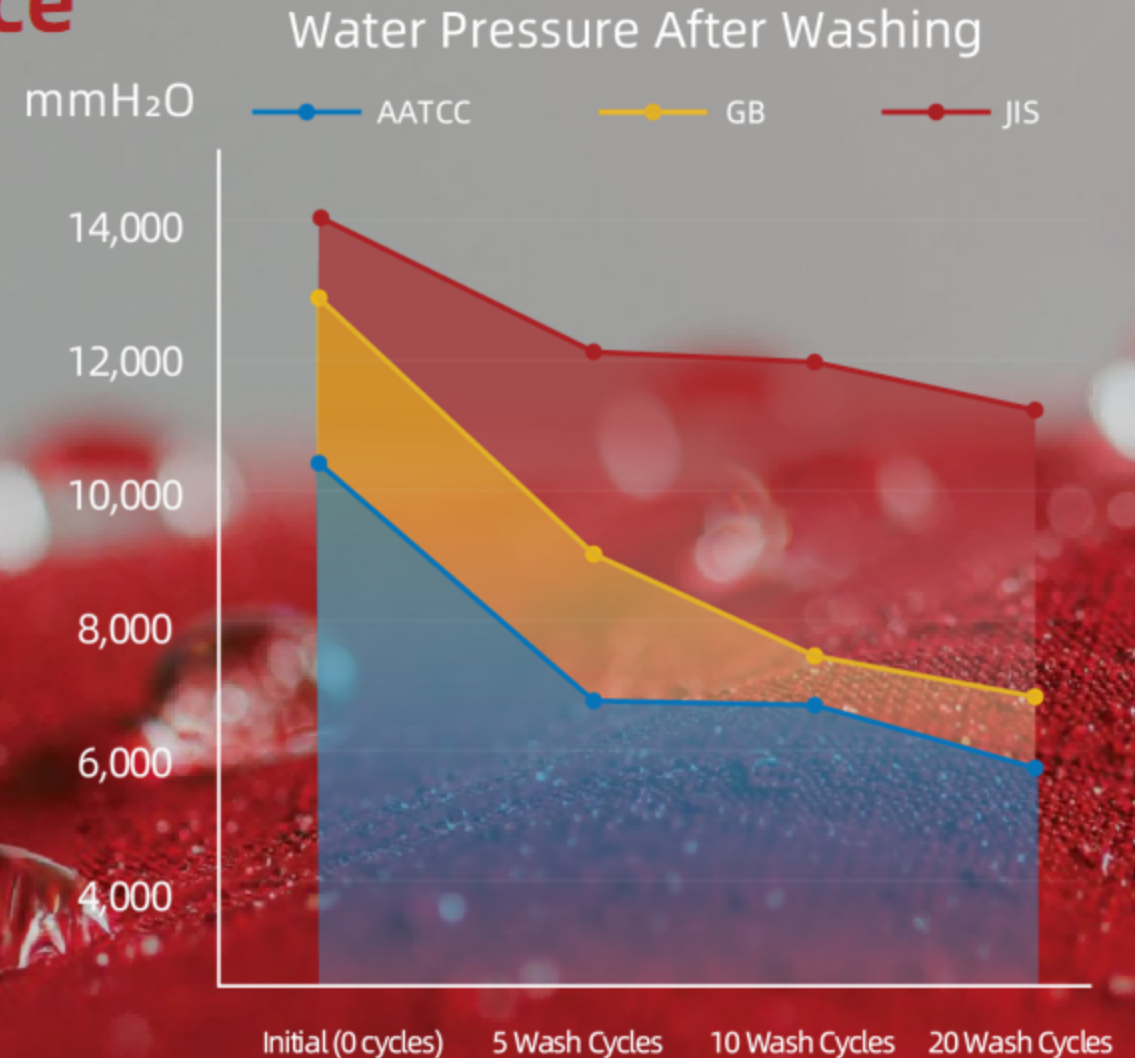
PFAS Test Report

High Waterproof Performance

Blocks external moisture and provides reliable waterproof protection

≥13000

Waterproof Index (mmH₂O)



Air & Moisture Permeability

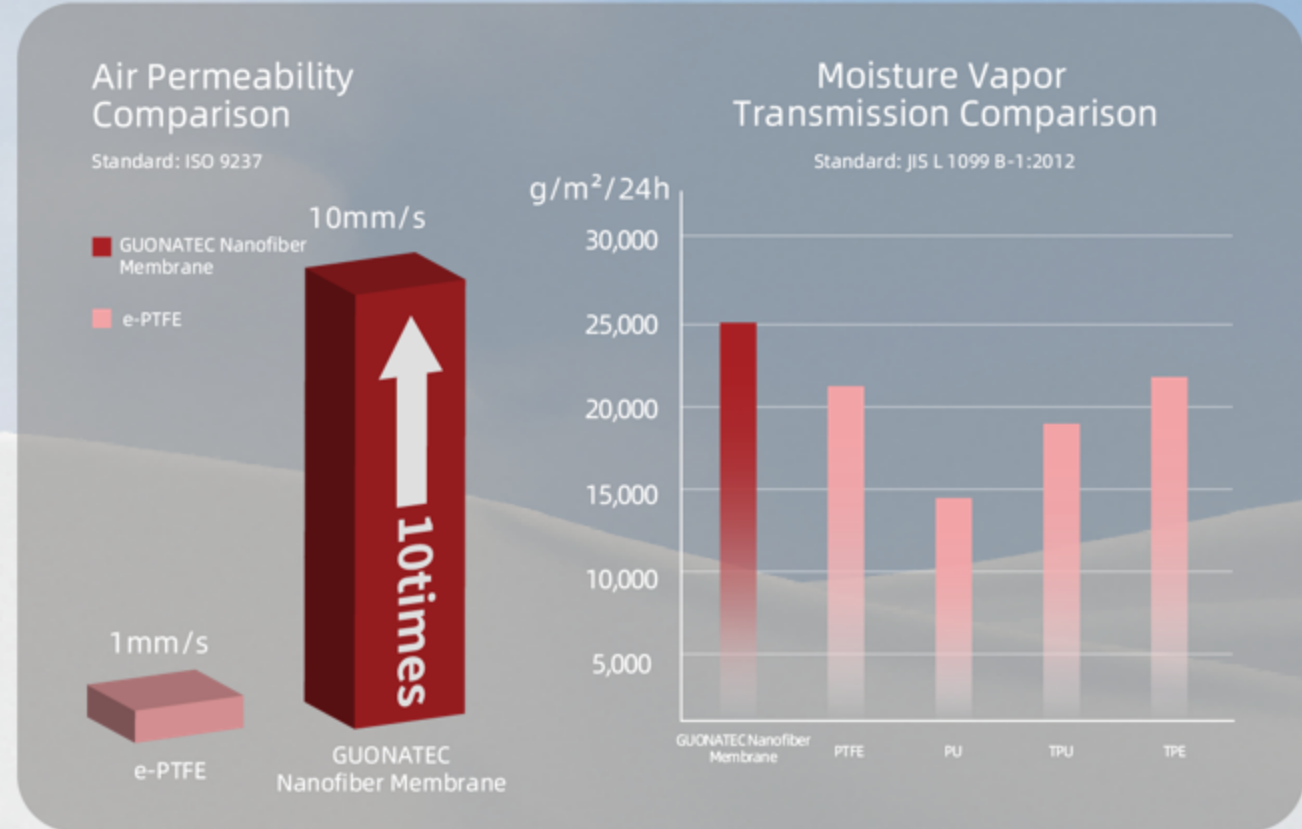
Tiny pores effectively block liquid water penetration while allowing air to pass through

≥ 25000

Moisture Vapor Transmission
Rate($\text{g}/\text{m}^2/24\text{h}$)

1~10

Air Permeability Index(mm/s)



High Elasticity

Stretchable to Over 2× Its Original Length

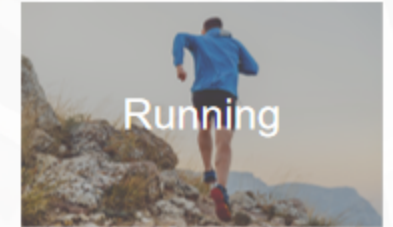
≥100

Elongation Rate (%)



Product Specifications

Product Series	High Breathability & Lightweight (WS1Q1006)	Comfort & Protection (WS6Q210)	Professional Outdoor (GN8115)	Extreme Cold Protection (WS10Q123)
Color	White	White	White	White
Weight (gms)	6	10	15	23
Hydrostatic Pressure (mmH ₂ O) GB/T 4744 - 2013	1000	6000	10000	11000
Hydrostatic Pressure (mmH ₂ O) JIS L1092-2025 B	6000	9000	14000	15000
Air Permeability (mm/s) GB/T 5453-1997	>10	>2	>1.5	>0.8
Elongation Rate (%) GB/T 3923.2-2013	>100	>30	>30	>30
Thickness (μm) GB/T 3820-1997	10	20	30	40
Moisture Vapor Transmission Rate (g/m ² /24h) JIS L1099-2021 B1	>28000	>25000	>20000	>15000



Join Hands for Cooperation, Explore New Value of Nanofibers Together

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