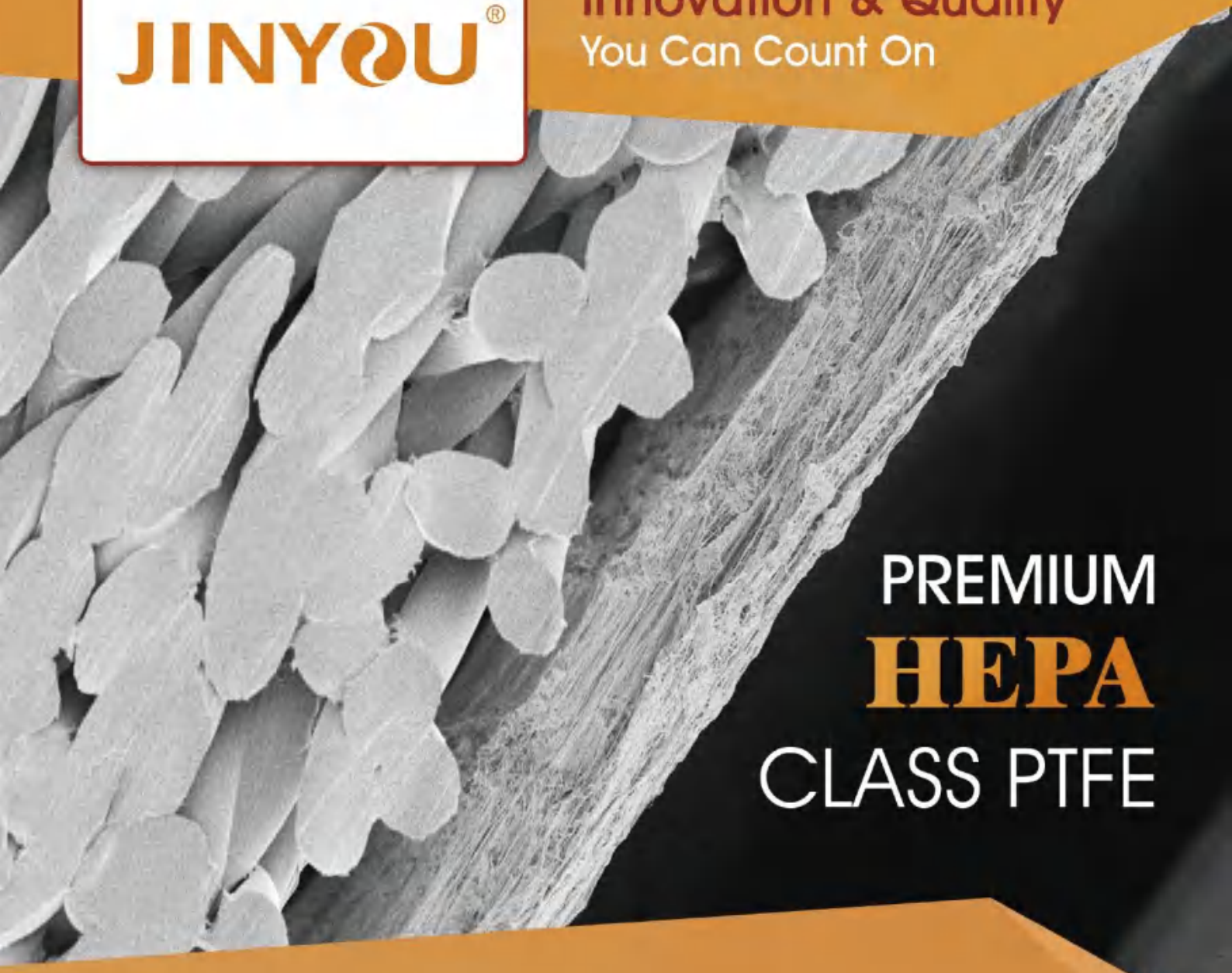
JINYOU®

Innovation & Quality
You Can Count On



PREMIUM
HEPA
CLASS PTFE

ePTFE Industrial Leader

40+ years experience

20+ years achievement PM2.5

Shanghai JINYOU Fluorine Materials Co., LTD

Innovation & Quality You Can Count On

Company Introduction

JINYOU is a technology-oriented enterprise that has been pioneering the development and application of PTFE products for over **40** years. Our production base, which spans approximately 150 acres (100,000m²) of land, includes state-of-the-art facilities located in Haimen, Jiangsu province and Shanghai Pudong New Area. We specialize in manufacturing PTFE membrane laminated filter media and bags with "surface filtration" characteristics. We have independently developed PTFE fibers, scrims, dental floss, gasket sheets, cable films, filter media and process into filter bags and cartridges. Our products are widely used in various industries, including environmental protection, air purification, medical and healthcare, electronic devices, uniform and textile manufacturing, elastic sealing, telecommunications cables, aerospace, and new energy.

We have also developed local representatives in the United States, Canada, Germany, Italy, Korea, India and South Africa.

JINYOU®

CONTENTS

1983, LH was founded to produce dust collectors.

1993, ePTFE membrane was developed.

1995, Laminate PTFE membrane onto various filter media.

2000, PTFE yarns and sewing thread were developed.

2005, JINYOU Fluorine was founded.

2008, ePTFE gasket sheet & cable film were developed.

1983 1993 1995 2000 2005

1983 1993 1995 2000

Company Development

JINYOU®

As a leading manufacturer in the air filtration industry since 1983, JINYOU specializes in producing ePTFE membrane, HEPA filter media, filter bags, and various other high-grade PTFE products, including PTFE fibers, PTFE sheets, PTFE cable film, and PTFE tape etc.

JINYOU®

2010, Terminated dust collector business to focus entirely on PTFE related products.

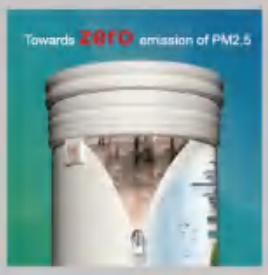
2013, Allied with IAM to develop HEPA media.

2015, Towards zero emission of PM2.5.

2021, Developed high-frequency cables and JINYOU Electronics was founded.

2022, Created PTFE membrane for electronics in depths up to 100m underwater.

2008 2010 2013 2015 2021 2022



2005 2008 2013 2015 2022

Innovation & Quality You Can Count On

IAM

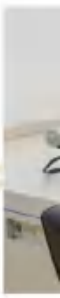
Innovative Air Management is proud to be the exclusive distributor of JINYOU HEPA media, which is the highest quality membrane available on various substrates. IAM offers a full line of ePTFE media, along with third-party lab reports to support a high HEPA standard. Additionally, IAM provides an innovative ePTFE product line for industrial air filtration.

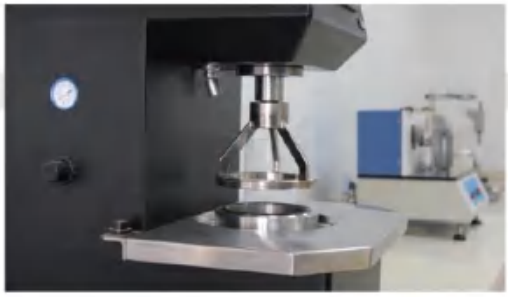
R&D and QC

Quality certificate issued for every order:

Advanced Testing Instruments:

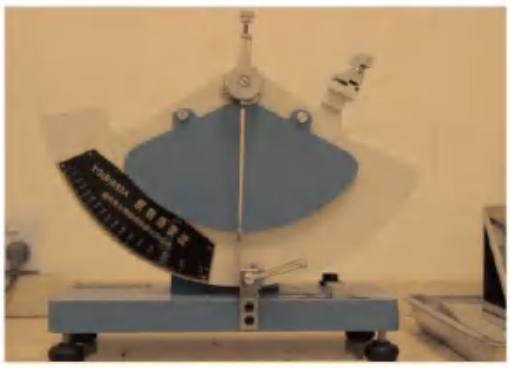
- TSI 3160 & TSI 8130 (Fractional-Efficiency Filter Tester)
- JSM 6510 (Scanning Electron Microscope)
- METTLER TOLEDO DSC 3 (Differential Scanning Calorimetry)
- 3H-2000PB (Membrane Pore Size Analyzer)
- RODOS SYMPATEC (Particle Size Analyzer)
- YG461E (Digital Air Permeability Measurement Unit)
- YG026C (Digital Tensile Performance Tester) to measure tensile strengths and elongations






CERTITEST


FRACTIONAL-EFFICIENCY FILTER TESTER




YG(B)461E型
数字式织物透气性能测定仪

JINYOU®

PTFE weaving yarn

Features:

- Mono-filament
- Chemical Resistance from PH0-PH14
- Superior UV Resistance
- Wear Resistance
- Non-aging
- High Strength Retention at High Temperatures

Application:

PTFE yarn is a synthetic material that has unique properties that make it an ideal material for use in various industries. Its chemical resistance, high temperature resistance and UV resistance make it an ideal material for use in the production of PTFE scrim for high temperature needle felts and woven fabric in air filtration, electronic application or outdoor fabric.

S Grade

Model	JUWY-S200-S	JUWY-S400-S	JUWY-S500-S	JUWY-S550-S
Density	200 Den	400 Den	500 Den	550 Den
Tensile Strength	3.6gf/den or 32CN/Tex			
Operating Temperture	-190~260°C			

JINYOU

PTFE staple fiber

Features:

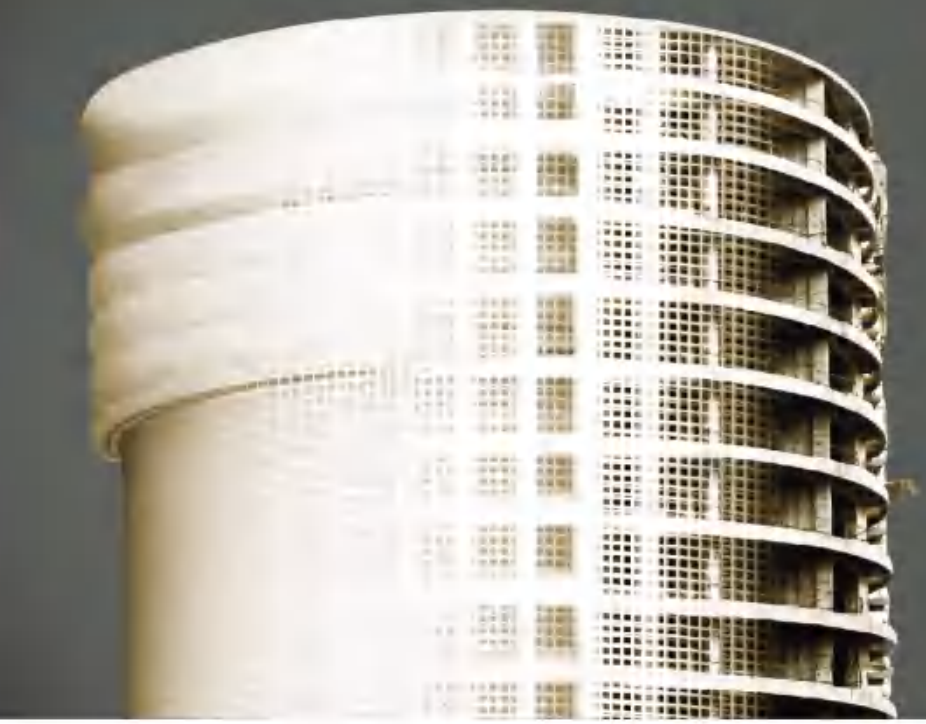
- Chemical Resistance from PH0-PH14
- UV Resistance
- Non-aging

Application:

PTFE staple fiber is an excellent material for use in high-temperature needle felt production due to its high-temperature resistance, and chemical resistance. Its unique properties make it an ideal material for use in industrial filtration systems and other applications where there is exposure to high temperatures and chemicals.

Model	Fineness (Den)	Length (mm)	Tensile Strength (gf/den)	Temperature (°C)	Shinkage (@260°C 30min)	Crimp (No./25mm)
JUSF-WN-S1	1.0～3.0	36/42/48	>2.0	-190~260	<3.0	8
JUSF-WN-S2	2.0～8.0	48/60/72	>2.0	-190~260	<3.0	8
JUSF-WN-S3	6.0～12.0	48/60/72	>2.0	-190~260	<3.0	8

JINYOU



PTFE scrim

Features:

- Woven By Mono-filament
- Chemical Resistance from PH0-PH14
- UV Resistance
- Wear Resistance
- Non-aging
- High Strength Retention at High Temperatures

Application:

The use of PTFE scrim in high-temperature needle felt is a promising field of industrial filtration. By improving the fabric's resistance to high temperatures and chemical exposure, PTFE scrim can help to improve durability of needle felt in a wide range of industrial applications. Nowadays, PTFE scrim has been used in Aramid felt, PPS felt, PI felt and PTFE felt, etc. to elongate felt service life with better performance.

Standard Series

Model	JUC#105	JUC#115	JUC#125	JUC#135
Density	500 Den	500 Den	500 Den	500 Den
Warp&Weft Density	110×80	128×80	128×100	135×120
Weight	105g/m²	115g/m²	125g/m²	135g/m²
Operating Temperature	-190~260°C			
Warp Tenacity	>830 N/5cm	>970 N/5cm	>970 N/5cm	>1020 N/5cm
Weft Tenacity	>580 N/5cm	>580 N/5cm	>750 N/5cm	>900 N/5cm

Customized PTFE fabric weights are available upon request for other applications.

PTFE sewing thread

Features:

- Mono-filament
- Chemical Resistance from PH0-PH14
- UV Resistance
- Wear Resistance
- Non-aging
- High Strength Retention at High Temperatures

Application:

PTFE sewing thread is an excellent choice for stitching filter bags due to its exceptional chemical resistance, high temperature resistance, low coefficient of friction, and resistance to UV radiation. These properties make PTFE sewing thread suitable for use in harsh environments and outdoor applications. Additionally, the thread is safe for use in food and pharmaceutical applications, making it a versatile choice for various industries.

General Series

Model	JUS-S100	JUT-S125	JUT-S150	JUT-S280
Density	1000 Den	1250 Den	1500 Den	2800 Den
Break Force	40 N	46 N	56 N	112 N
Tensile Strength	>3.6 gf/den or 32 CN/Tex			
Operating Temperture	-190~260°C			
Length per KG	9000m	7200m	6000m	3200m

The technical information supplied is for guidelines only and not for warranty purposes.

JINYOU

ePTFE

Membrane Filter Media

100% PTFE with PTFE Membrane

Model: JUF-W-C800

Specifications:	
Composition:	Fiber: PTFE Scrim: PTFE
Area Weight:	800 g/m2
Thickness:	1.1 mm
Air Permeability:	15-30 L/dm2•min@200Pa

Technical Parameters:	
Temperature Rating:	cont.: 250°C peaks: 265°C
Tensile Strength:	length: 800 N/5cm cross : 800 N/5cm
Elongation at Break:	length: <20% cross: <20%
Shrinkage:	≤2% [at 250°C 60min]
Finish:	Heat Set PTFE membrane lamination

Woven Glass Fabric with PTFE Membrane

Model: FG-750-P

Specifications:	
Thread Count:	Warp: 20±1 /1cm Weft: 20±1 /1cm
Weave Pattern:	Double Weft
Area Weight:	750 g/m2
Thickness:	0.7-0.9 mm
Air Permeability:	20-40L/dm2•min@200Pa

Technical Parameters:	
Temperature Rating:	cont.: 260°C peaks: 280°C
Tensile Strength:	length: 2500 N/2.5cm cross: 3000 N/2.5cm
Minimum Mullen Burst:	62 kg/cm2
Shrinkage:	<1% [at 260°C 30min]
Finish:	Teflon Treatment PTFE membrane lamination

Woven Glass Fabric with PTFE Membrane

Model: FG-350

Specifications:	
Thread Count:	Wrap: 21±1 /1 cm Weft: 12±1 /1 cm
Weave Pattern:	3×1 Twil
Area Weight:	350 g/m^2
Thickness:	0.38 mm
Air Permeability:	20-40 L/dm^2•min@200Pa

Technical Parameters:	
Temperature Rating:	cont.: 260°C peaks: 280°C
Tensile Strength:	length: 1400 N/2.5 cm cross: 900 N/2.5 cm
Minimum Mullen Burst:	28 kg/cm^2
Shrinkage:	<1% [at 260°C 30min]
Finish:	Acid Resistance PTFE membrane lamination

PE Felt with PTFE Membrane

Model: PE-500-C-P

Specifications:

Composition:	Fiber: PE Scrim: PE
Area Weight:	500 g/m2
Thickness:	2.0 mm
Air Permeability:	20-45 L/dm2•min@200Pa

Technical Parameters:

Temperature Rating:	cont.: 135°C peaks:150°C
Tensile Strength:	length: 1200 N/5cm cross : 1600 N/5cm
Elongation at Break:	length: <30% cross: <50%
Shrinkage:	<1.5% [at 150°C 90min]
Finish:	PTFE membrane lamination

PPS Felt with PTFE Membrane

Model: PPS-500-P

Specifications:

Composition:	Fiber: PPS Scrim: PPS
Area Weight:	500 g/m2
Thickness:	1.8 mm
Air Permeability:	20-45 L/dm2•min@200Pa

Technical Parameters:

Temperature Rating:	cont.: 180°C peaks: 200°C
Tensile Strength:	length: 800 N/5cm cross: 1000 N/5cm
Elongation at Break:	length: <35% cross: <40%
Shrinkage:	<2% [at 210°C 90min]
Finish:	PTFE membrane lamination

Aramid Felt with PTFE Membrane

Model: MX-500-C-P

Specifications:

Composition:	Fiber: ARD Scrim: ARD
Area Weight:	500 g/m2
Thickness:	2.2 mm
Air Permeability:	20-45 L/dm2•min@200Pa

Technical Parameters:

Temperature Rating:	cont.: 200°C peaks: 204°C
Tensile Strength:	length: 800 N/5cm cross: 1000 N/5cm
Elongation at Break:	length: <20% cross: <40%
Shrinkage:	<3% [at 240°C 90min]
Finish:	Heat Set PTFE membrane lamination

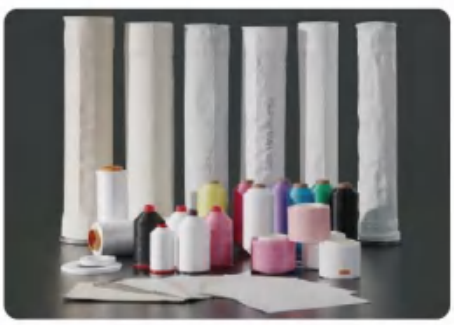
Note: We also customize and develop various filter media as shown below:

PTFE Woven Fabric in
320gsm/**470**gsm/**580**gsm

Aramid/Arylic/PET Woven Fabric in
330gsm

HEPA PET Spunlace in
158gsm

Lower Pressure Drop Results in
More Energy Savings!



Our filter bags are mainly used in waste to energy, chemical industry, metallurgy, steel plant, cement, carbon black, ferro-alloy, power plant,etc.

Cement Kilns

Filter Bags

9 tubing lines with capacity of **9** million meters per year.

Power Plants

Incinerators

JINYOU Products

JINYOU | INNOVATIVE AIR MANAGEMENT

Our HEPA filter media ranges from H10 to H13 being widely used in medical area, welding and cutting, gas turbine, pharmaceuticals industry, automotive manufacturing, surface technologies and so on.

The Lowest Pressure Drop

HP Series

Our bi-component polyester material with PTFE lamination is designed to maximize filter capacity and minimize operating pressure drop over the filter's lifespan. It's particularly well-suited for heavy dust applications, and we offer customized treatments as described below:

- Plasma Cutting
- Laser Cutting
- Heavy Dust Loading
- Pharmaceuticals
- Industrial Welding

HP300

HP300-FR

Fire retardant coating prevents filter media from catching fire.

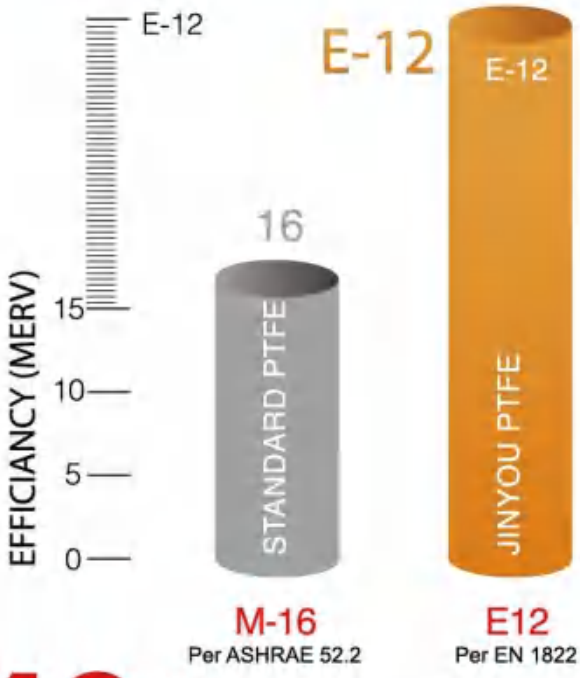
HP300-HO

Water and oil repellent treatment is ideal for shedding water and oil-based particulates.

HP300-AL

Aluminum anti-static coating maintains neutral charge and minimizes buildup of negative ions and electrostatic energy on filter media.

Standard PTFE vs HP360 PTFE



40% LOWER PRESSURE

HP500/HP700

HP500 is rated as H12+ and HP700 is rated as H13 media, which puts it in a class of its own. The proprietary HEPA grade ePTFE membrane is thermal-bonded to a 130gsm or 260gsm bi-component polyester spunbond base. The membrane is laminated to the substrate without solvents, chemicals, or binders. This process eliminates the risk of contamination and leaching during the filtration process.

Features:

- **Chemical resistant, anti-salt membrane**
- **100% hydrophobic**
- **HEPA grade (H13 Efficiency)**
- **Full synthetic media**
- **Excellent particulate shedding off surface**
- **Relaxed ePTFE membrane for durability in the pleating process**

Applications:

- Vacuum Systems
- Pharmaceuticals
- Clean Rooms
- Electronics
- Chemical Filtration
- Biological Filtration
- Food Processing
- Radioactive Particles
- Hospitals
- Laboratories
- Hazardous Material Collection

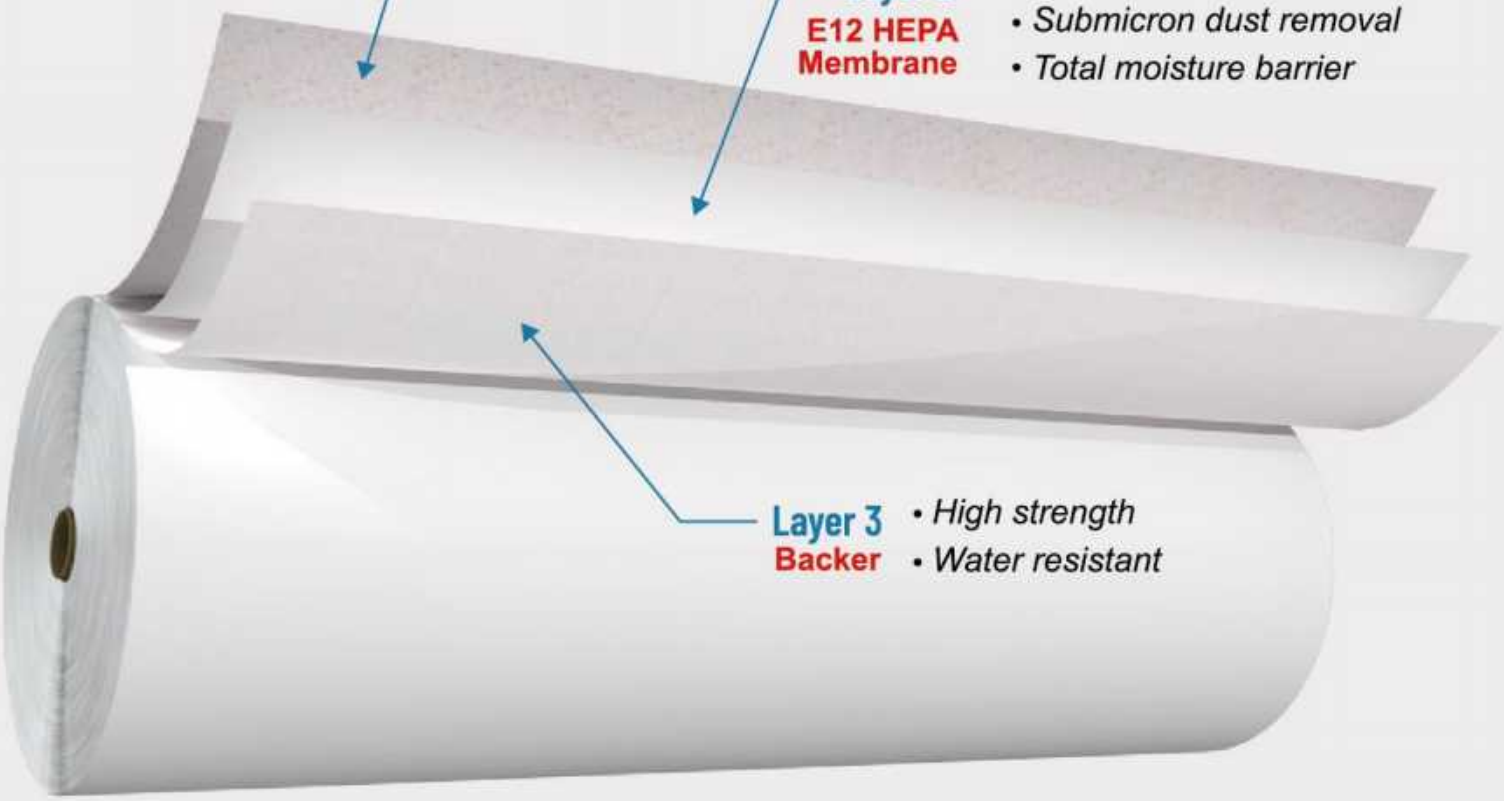
JINYOU® | INNOVATIVE AIR MANAGEMENT

The Turbine & Clean Room Choices

TR500 Series

Replace F9 technology with HEPA efficiency and superior performance

- Reduced Turbine Wear
- Increased Power Output
- H10-H14 HEPA Efficiency
- Hydrophobic



The Innovative Choice

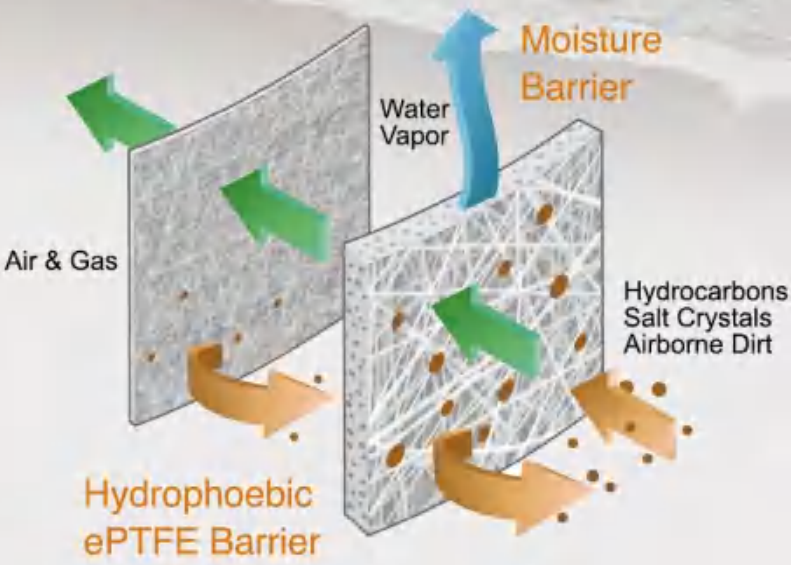
PC200 Series

- **Lowest** Pressure Drop
- **Longer** Lifetime
- **HEPA** Efficiency

Replace fragile Nano-fiber and high priced HEPA filters

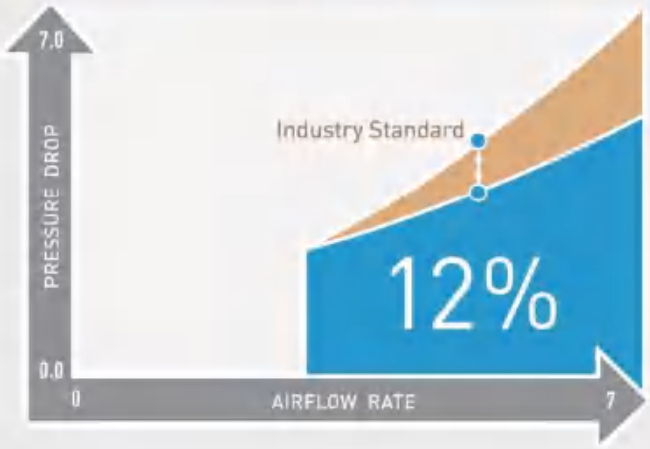
The PC200 is a 100% hydrophobic media that offers industries lowest pressure drop with an ePTFE membrane. As an upgrade to nanofiber, the durable PC200 will give longer filter life, HEPA efficiency, excellent particulate release and is resistant to harmful chemicals and salt.

The proprietary ePTFE membrane is laminated to our corrugated PolyPlus substrate which can be pleated in standard rotary type equipment making it an economical solution where HEPA filtration is required.

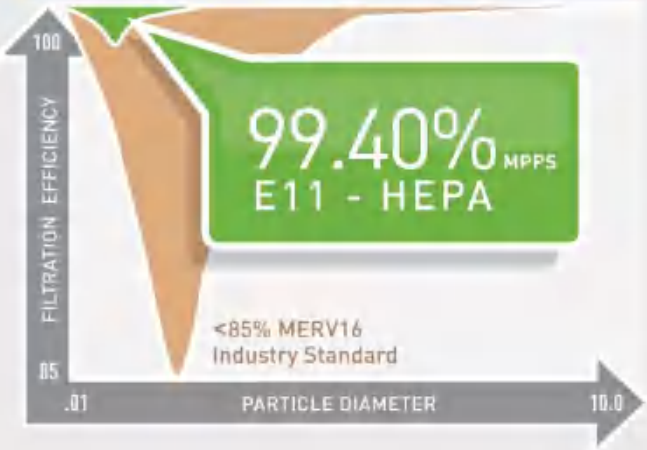


Efficiency & Pressure Drop

Reduced Pressure Drop



Increased Efficiency



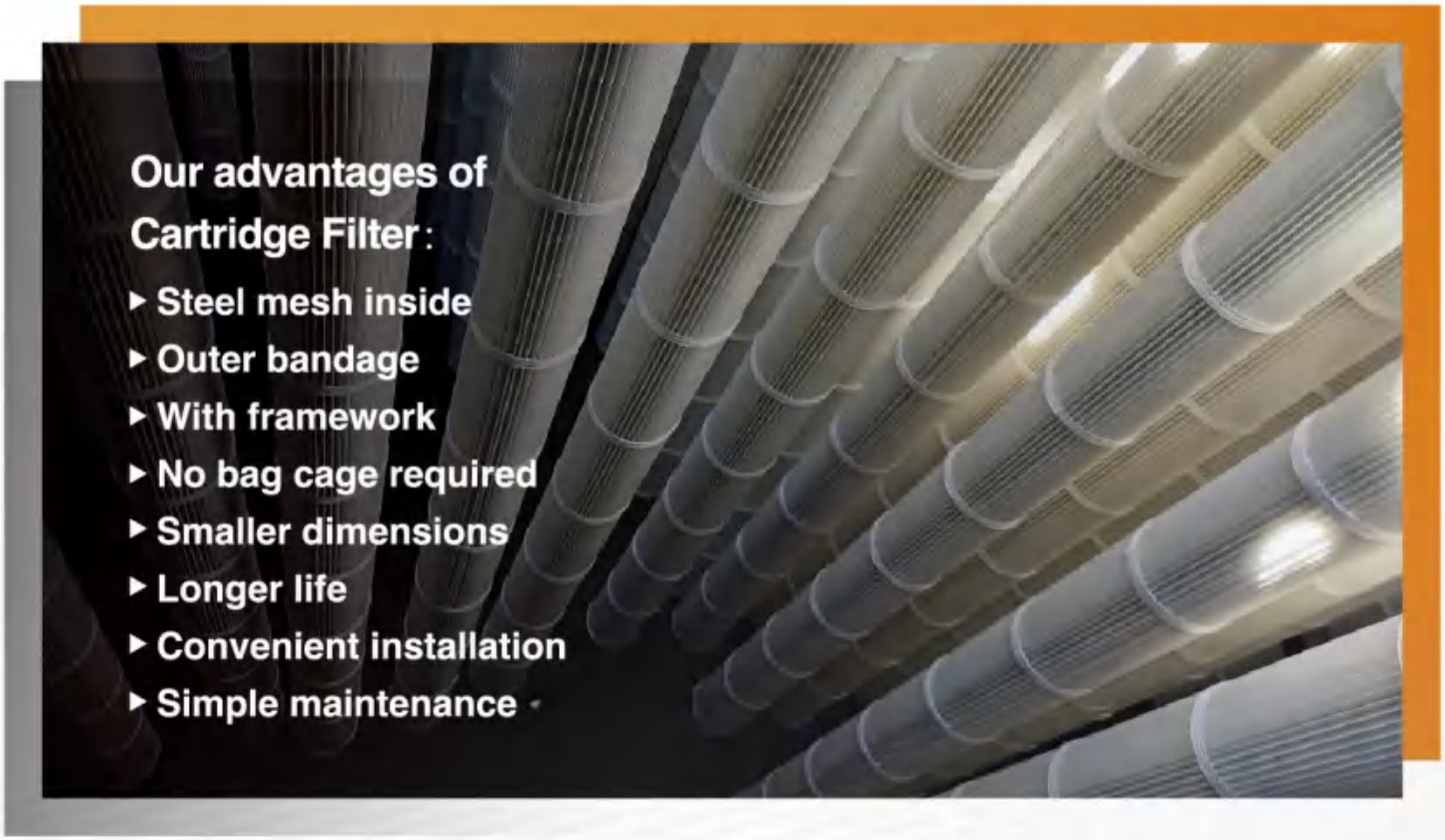
PC200-FR

Specifications:	
Area Weight:	140 g/m²
Thickness:	0.55 mm
Type:	Corr
Corrugated Depth:	0.25 mm

Technical Parameters:	
Air Permeability:	39 L/dm² • min @ 200Pa
Tensile Strength:	length: 223 N/5cm
	cross: 132 N/5cm
Temperature Rating:	80 ℃
Filtration Efficiency:	E11

JINYOU®

Pleated Bag / Cartridge



Our advantages of Cartridge Filter:

- Steel mesh inside
- Outer bandage
- With framework
- No bag cage required
- Smaller dimensions
- Longer life
- Convenient installation
- Simple maintenance

Our **Energy-saving Dust Removal Cartridge Filter** can be used for most of heavy dust loading applications such as:

- Plasma cutting, Welding
- Powder conveying
- Gas turbine
- Casting factory
- Steel plant, Cement plant, Chemical plant
- Tobacco factory, Food manufacturer
- Automobile factory

Advantages of choosing cartridge filter comparing with bag filter:

Larger filter area than filter bag (1.5-3 times)
Ultra low particulate matter emission (<5mg/Nm3)
Lower operating differential pressure (at least 20% reduction), reducing operating costs
Reduced downtime, maintenance, labor, and operating costs
Longer operating life (2-4 times longer with ultra-low emissions)
Extremely low damage rate for long-term stable use

Filter cartridge parameter selection table

Diameter(mm)	Pleat height(mm)	Pleats number	Length(mm)	Standard filter area(m^2)
130	23	40	2000	3.6
			2200	4.0
			2400	4.4
150	23	46	2000	4.2
			2200	4.6
			2400	5.0
160	25	46	2000	4.6
			2200	5.0
			2400	5.5

※Can be adjusted and customized according to different working conditions

JINYOU®

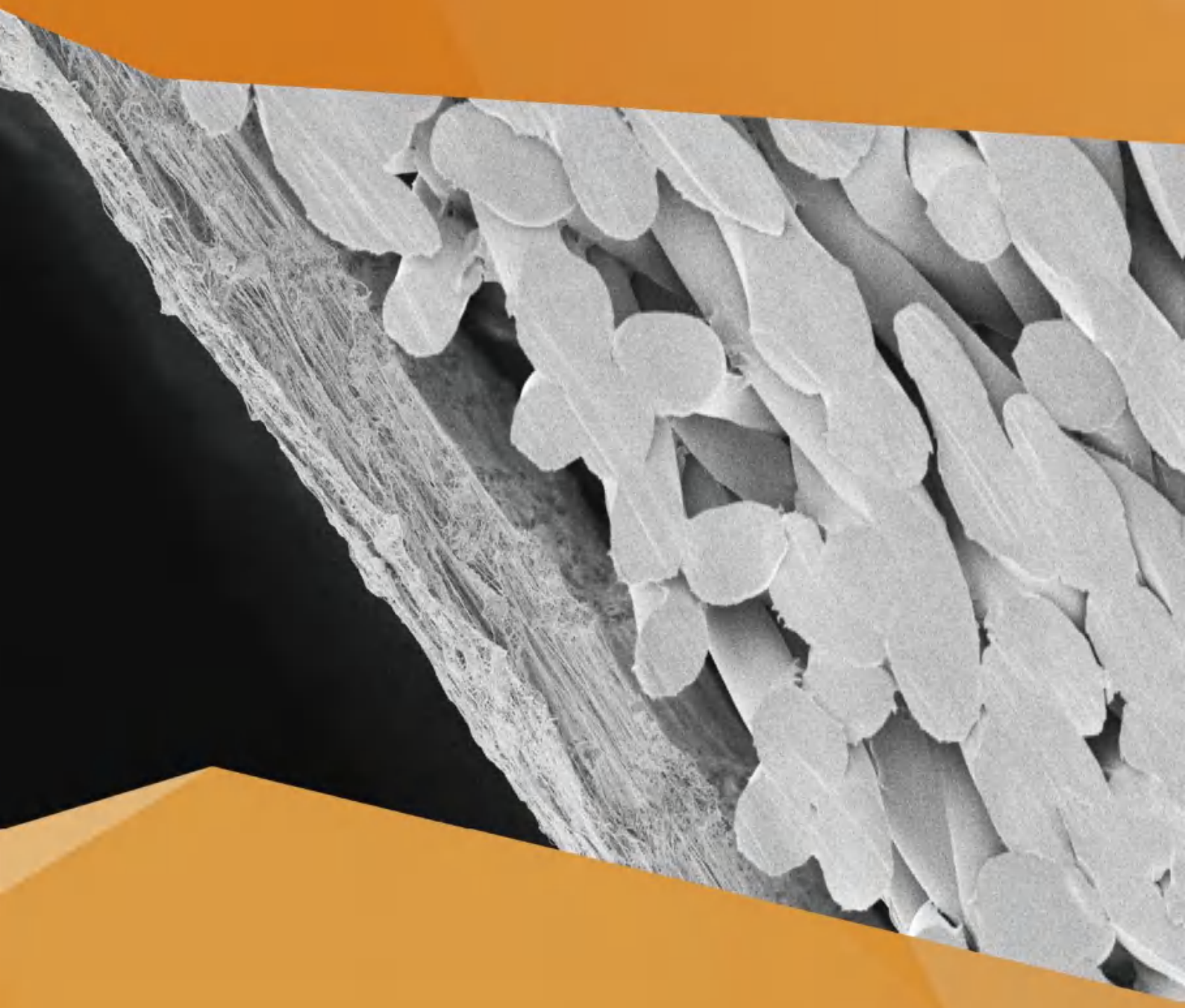
Reverse Air Filter Bags

Shanghai ShenJia Ferroalloy Co., Ltd.

Reverse Air Filter Bags for the Following Applications:

Ferroalloy
Carbon Black
Coal-Fired Power Plant
Industrial Silicon
Chemical Industry
Blast Furnace Power Plant
Blast Furnace Casting Plant

Woven Fabrics
350gsm/450gsm/550gsm fiberglass fabric reverse air bags
320gsm Aramid woven fabric reverse air bags
320gsm/480gsm/580gsm PTFE woven fabric reverse air bags
320gsm Polyester woven fabric reverse air bags



Shanghai JINYOU Fluorine Materials Co., LTD

Add: 705, B-Block, 999 Zhouhai Road, Pudong New Area, Shanghai 200137 China
No. 2297 Haimin Rd, Baochang, Haimen, Nantong, Jiangsu 226156 China

Tel: +86(21) 5010 9855

Mail: huzl@eptfe.com.cn

Web: www.jinyoueptfe.com