



**YANPAI**

Filtration Technology Co.,Ltd



[www.yanpai.com](http://www.yanpai.com)

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# Contents

YANPAI FILTRATION



02	<b>ABOUT US</b>
04	<b>HISTORY</b>
05	<b>R&amp;D ABILITY</b>
06	<b>PRODUCTS</b>
07	Filter Cloth
08	Belt Process
09	Needle Felt
10	Specification
11	PTFE Membrane & RZ
12	Dust Collector Filter Bag
13	Liquid Filter Bag
14	Mesh
15	Airslide Fabric
16	<b>Fiber Characteristic</b>
17	<b>SERVICE NETWORK</b>



# ABOUT US

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Founded in 1990, Yanpai Filtration Technology Co., Ltd (YANPAI ®) has been at the forefront of the development of new industrial filtration fabrics.

Yanpai may well be the largest manufacturer of woven filter fabrics in the world and also is a major manufacturer of nonwoven needle felt products in the world. We manufacture filter fabrics for solid and liquid separation.

Yanpai produces a wide range of filter fabrics from 50 GSM to 5000 GSM in a wide variety of fiber types. Among our customer base we are known for our superb service and responsiveness.

YANPAI ® operates under ISO 9001:2000 quality system auspices using SPC to assure consistency of product quality.



Cement



Metallurgical



Chemical Lines



Electric Power



Waste Incineration



Furnace



YANPAI

Filtration Technology Co.,Ltd

# HISTORY

1991

- Sun Shiyan family set up Weave Plant - Tiantai South-West Filter-Cloth Factory, and first to produce staple fiber and filament fabrics in Pingqiao, Tiantai.

2004

- Set up Needle felt Plant to produce needle felt.

2007

- First to produce air slide belt.

2009

- Large and new plant in Keshan has been built, Industrial Production of needle felts.

2014

- Establish Yanpai Filtration Technology Co.,Ltd, with headquarter in Tiantai, Zhejiang, China
- Purchased Shanghai Yanpai Filter Cloth Co., Ltd.

2015

- Awarded as National High-Tech Enterprise, and Zhejiang Cleaner Production Company.

2016

- Fully intelligent assembling line for filter bags was completed and put into production.

2017

- Purchased Mid Atlantic Industrial Textiles Inc.
- Awarded as Zhejiang Hidden- Champion Enterprise; Provincial Pilot Enterprise for Management Innovation; Provincial High-tech Enterprise R&D Center; and granted as a Zhejiang well-known industrial products manufacturer.

2018

- Honored as “a famous exporting trademark of Zhejiang Province”.

2019

- Signed strategic cooperation agreement with Zhejiang University, established the R&D center for special filtration solution with catalyst technology, and become a member of national engineering laboratories for waste incineration technology and equipment.

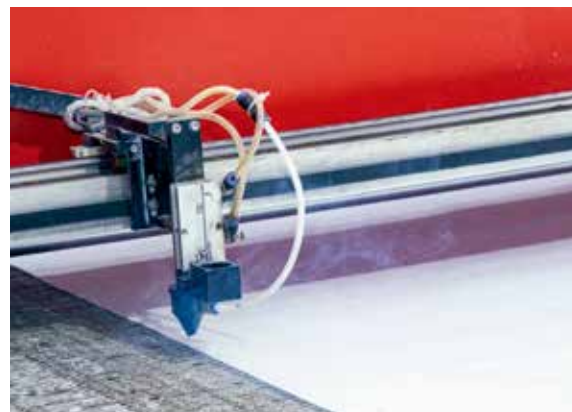
# R&D ABILITY

Yanpai Filtration is a technology driven company committed to satisfying customer needs through innovative research, development and continuous product improvement.

Our laboratory is the Provincial High-tech Enterprise R&D Center, signed strategic cooperation agreement with Zhejiang University, established the R&D center for special filtration solution with catalyst technology, and became a member of national engineering laboratories for waste incineration technology and equipment.

## OUR PLEDGE

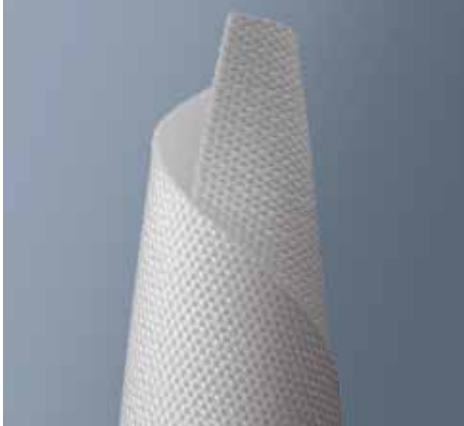
- Products that meet or exceed our published specifications
- Professional, reliable service
- On time Delivery
- Right materials, right price



# PRODUCTS

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- Filter cloth
- Belt process
- Needle felt
- Specification
- PTFE Membrane & RZ
- Dust collector filter bag
- Liquid filter bag
- Mesh
- Airslide fabric





# Filter Cloth

## THE MATERIAL YOU WANT

- Cotton
- PET
- PP
- PA
- PVA
- Acrylic
- Aramid
- PBT
- PTFE
- PPS
- Glass Fibre

## THE WEAVE YOU NEED

What flow rate do you need?

What pore size?

What cake release properties?

Whatever the need, YANPAI®

has a weave for you:

- Plain
- Twill
- Satin
- Double Layers
- Complex Weave

## APPLICATION

Different yarn, mesh, weave, whatever your application, YANPAI® has filtration material to meet your demand:

- Filter Press
- Vacuum Belt
- Drum Filter
- Pan Filter
- Disc Filters
- Tower press Belt
- Candle filter bag
- Kelly Bag

# Belt Process

YANPAI ® offers the highest quality and performance in belts presses.

- Fine and even meshes
- Large treatment capacity
- Uniform sludge feeding
- High efficient dehydration
- Durable and Easy maintenance
- Light weight and High intensity strength
- High density and Low elongation at break
- Capacity range: 2-25m<sup>3</sup>/hr

Product Specification	Product Application
Polyester Dewatering Belt	Printing, Mining Selection, and Food industry, etc
Polyester Dry Belt	Drying for Paper making and Pulp concentration
Polyester Forming Fabrics	Pulp, Board, Writing paper printing and Tissue paper industry
Polyester Pulping Belt	Vacuum belt pulping machine and Drum belt pulping machine

# Needle Felt

YANPAI® is growing our needle felt products for the dry filtration.

A new 90,000m<sup>2</sup> building with state of the art facilities was constructed in Keshan only for dry filtration products. We have huge numbers of excellent felts and membrane materials in China, American, Brazil and Germany warehouse close to our customers.

New lamination lines offer 215cm wide PTFE membrane products, long heat setting equipment, different chemical treatments, New sewing shops offer laser cutting capabilities and the full range of liquid and dust filtration bags.

Fiber Material	Treatment
Polyester	Singed
Polypropylene	Calendered
Acrylic	Oil&water repellence
PPS/Ryton	PTFE membrane
Meta-Aramide	Chemical dipping
PI	Fire resistant
PTFE	Antistatic
Fiberglass	

# Specification

## Technical Specification of YANPAI ® Products

Product Specification	Fibre	Weight (g/M <sup>2</sup> )	Thickness	Air Permeability (L/m <sup>2</sup> .s)	Typical LoadPeak (N/5x20cm)		Typical Load@Peak (%)		Shrinkage (%)	Finish
					MD	XD	MD	XD		
<b>PE500</b>	PET	500	1.7	160-320	1000	1400	≤35	≤4	≤1	Pain,singe
<b>PP500</b>	PP	500	1.9	160-320	1700	1200	≤35	≤50	≤1	Pain,singe
<b>PPS500</b>	PPS	500	1.8	160-320	800	1000	≤35	≥55	≤1	Pain,singe
<b>PPS600</b>	PPS	600	2.0	150-300	800	1200	≤35	≤55	≤1	Pain,singe
<b>MX500</b>	Aramid	500	2.1	160-320	800	1000	≤35	≤55	≤1	Pain,singe
<b>P84500</b>	P84	500	2.2	180-350	800	1000	≤35	≤55	≤1	Pain,singe
<b>PTFE750</b>	PTFE	750	1.4	160-320	800	1000	≤35	≤55	≤1	Pain,PTFE membranes
<b>AY500</b>	Acrylic	500	1.9	160-320	800	1000	≤35	≤55	≤1	Pain,singe

# PTFE Membrane & RZ

Yanpai Filtration offers a complete line of Membrane RZ®

Membrane RZ is a PTFE(polytetrafluorethylene) surface filter membrane that is thermally bonded onto a variety of substrates. Chemically inert and thermally stable to 550°F(287 °C). Exclusively available from Yanpai.

## PRODUCT SPECIFICATION

- Membrane RZ®- Polyester
- Membrane RZ®- Aramid
- Membrane RZ®- PPS
- Membrane RZ®- Carbon Fiber Polyester
- Membrane RZ®- Fiberglass
- Membrane RZ®- Polypropylene
- Membrane RZ®- Polyester sateen 9 ounce

Ideal for a variety of microfiltration applications, Membrane RZ® micro-porous expanded PTFE films offer a number of unique benefits:

Cleavability-Significantly more cleanable than other laminates.

Durability-High strength membranes are laminated using proprietary Therma-Weld process.

- High Chemical Resistance-Inherently hydrophobic, resistant to acids and bases
- Non-Shedding
- Bacteria Resistant
- High Flow Rates
- ETS Filtration Tested- Removes 99.9999% of particles 2.5 microns or larger
- Exceeds all EPA emission requirement Wide Thermal range



## **Dust Collector Filter Bag**

YANPAI® Filter bags are made of high quality felts or woven fabrics to meet the standards of various industries. The excellent quality of fibers is maintained via continuous manufacturing cycle which minimizes defects and confectioning mistakes.

YANPAI® Filter bags are sophisticated products which are manufactured using computerized management of technical drawings, models and specifications.

## Liquid Filter Bag

YANPAI® liquid filter bags for all types of liquid filtration systems. We offer a complete line of replacement and custom designed liquid filters to fit most manufacturer filter bag housings. Micron ratings from 0.5 to 1500 microns to suit your application.

Product Specification	Micron range(μm)
Needle nonwoven filter bag	1, 5, 10, 25, 50, 75 , 100, 150, 200
Mesh bags	25, 50, 80, 100, 125, 150, 200, 250, 300, 400 , 600, 800, 1000

Sewing technology	Ring Specification	Size
Sewing, Welded	Stainless steel Ring, Polypropylene Ring, Nylon Ring	1#: 7" *16 1/2" 2#: 7" *32" 3#: 4" *8 1/4" 4#: 4" *14"

\*Custom configurations, package and label available on request.



## Mesh

YANPAI® mesh is widely used in filtration for straining and screening processes.

<b>Materials</b>	Polyamide(Nylon), Polyester Monofilament
<b>Hole sizes(micron)</b>	2000~30
<b>Application</b>	Food Industry, Mesh Printing, Electronic industry, Flour Mill, etc.

Due to the advanced textile technique, the hole sizes are uniform with a wide scale which covers almost all the regular applications. At the time, depends on great R&D ability, YANPAI® can develop customized meshes according to special requests.



## ■ Airslide Fabric

YANPAI® Airslide fabrics can be used wherever bulk materials are pneumatically conveyed.

MATERIAL AVAILABLE	APPLICATION
Polyester Multifilament/Spun yarn Meta-Aramid yarn Cotton yarn Antistatic fiber Nylon Multifilament/Spun yarn	Cement industry(raw cement powder and clinker dust) Metallurgical industry Chalk and Gypsum industries Power plants(fly ash discharge) Carbon dust industries Pharmaceutical industries, Flour products, Paper for cardboard industries Chemical industries, etc.

Technical Specifications	Temperature (°C)	Thickness (mm)	Weight (gsm)	Pressure loss at 400m <sup>3</sup> /h/m <sup>2</sup> ( mmWg)	Standard length (m)	Tensile strength(N/cm)	
						warp	weft
Operating Range	-60 ~240	3 ~ 10	2500~ 6800	240~ 1800	≤800	4000~10000	2500~8000

# FIBER CHARACTERISTIC

Filter Materials Choice: Flue Gas & Temperature. Fibre is affected by the temperature and properties of dusts.

## REMARK

- Polypropylene is attacked by UV light.
- PPS is attacked by strong oxidizing agents, but it is used in an oxidizing atmosphere instead of Aramid.
- P84 is attacked by Sox in power station applications.
- The stiffness of Fiberglass is large, to avoid bending.

Fiber Specification	Operating Temperature °C	Instant Temperature °C	Mildew Resistance	Alkaline Resistance	Acid Resistance	Oxidation Resistance	PH	Operation Humidity	Organic Solvents
Polyester	135	150	excellent	fair	good	good	4-12	≤4%	fair
Polypropylene	90	100	fair	excellent	excellent	fair	1-4	≤5%	excellent
Homo. Acrylic	110	150	excellent	good	excellent	good	6-13	≥5%	excellent
Meta-Aramid	135-204	220	excellent	good	fair	poor	5-9	≤10%	excellent
PPS/Ryton	190	232	excellent	excellent	excellent	good	1-4	≥30%	excellent
P84	240	260	excellent	fair	excellent	excellent	3-13	≤25%	excellent
PTFE	250	280	excellent	excellent	excellent	excellent	1-14	≥30%	excellent
Fiberglass	250	260	excellent	fair	excellent	excellent	1-12	≤30%	good

# SERVICE NETWORK

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Yanpai has a mature, experienced network of distribution, and is represented in South America, USA and Germany, on whom we rely to service our exporting requirements to USA, Europe, South Korea, Southeast Asia, Brazil, South Africa, etc.

Our plants and main office are located in China, our customers include major international operating companies who have been trusting Yanpai's quality and service for years.

## YANPAI BRANCHES

- China ( Tiantai, Shanghai )
- USA (New Jersey)





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