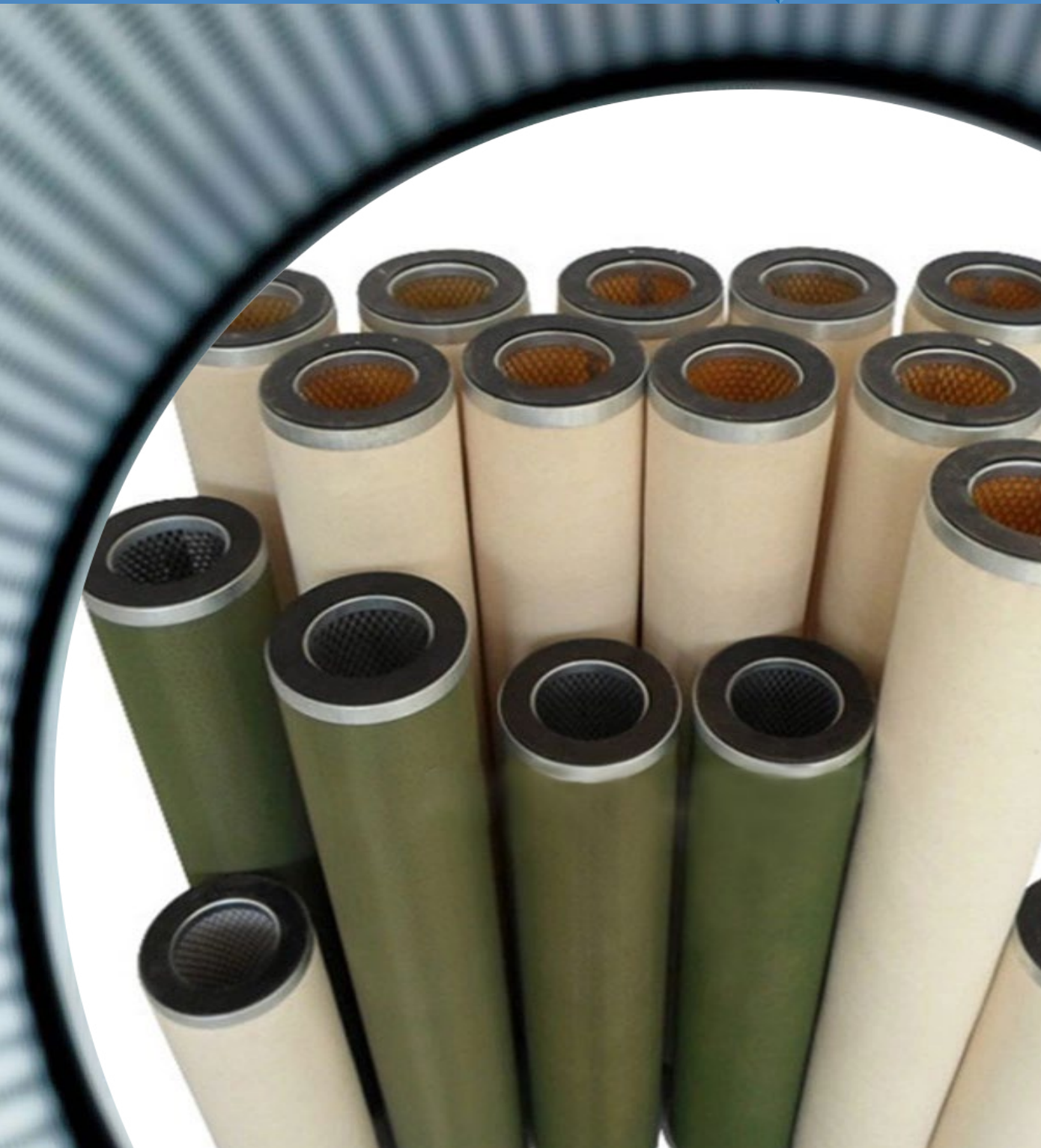


# Inborn Filter<sup>TM</sup>

## COALESCER & SEPARATOR CARTRIDGES

MANUFACTURE, CUSTOM & DESIGN





**Inborn Filter**<sup>TM</sup>  
HYDRAULIC FILTER

# Coalescer & Separator Cartridges

Manufacture, Custom & Design

About

# Yinbeier & Inborn Filter<sup>TM</sup>

Yinbeier manufactures a complete line of **replacement filter element** for industrial production



Hengshui Yinbeier Hydraulic Filter Co., Ltd. established in 2003 and began with producing and researching hydraulic filter elements. During years of researching and development, we have grown into a professional company, which is specialized in manufacturing, designing and customizing industrial filter element for customers from all over the world.

We have more than 10 production lines which cover hydraulic oil, air dust, water, compressed air, fuel and coolants industrial filter elements.

We brought in more than 200 sophisticated equipment and the annual output is more than 100 millions filter elements, which can satisfy the large and urgent orders of our customers.

We have more than 500 workers until now. And the company regularly organize training and assessment to ensure that all staff are in the best condition and can get the latest technology and skills.



23+

23 Years Experience



1.48 M

1.48 M Registered Capital



3000+

3000+ filter elements



500+

500+ workers



1000+

1000+ square meters  
workshop



10+

10+ R&D Staffs



800+

800+ Design &  
Custom Records



200+

200+ Customer  
Countries & Regions



20,000+

20,000+ Annual Output

## Company History

Present

Formed a professional foreign trade team, established a special foreign trade brand.

Products are exported to Kazakhstan, the United States, Indonesia and other countries

2017

Special Contributions

2015

Passed ISO 9001 and CE certification

2012

Build "Inborn Filter<sup>TM</sup>" Brand

2011

Local well-known companies

2009

Member of Anti-Counterfeiting Association

2005

Determined company development and product marketing directions

2003

Establishment



# Coalescer & Separator Cartridges

*Full Ranges Models for Gasoline, Aviation Fuel, Kerosene and Diesel Fuel*

Coalescer filters are specially designed for the separation and filtration of water from gasoline, aviation fuel, kerosene and diesel fuel. They include coalescer and separator cartridges.

The coalescer cartridges gather and filter solid particles and larger water droplets with excellent hydrophilia performance and let the droplets falling down to the bottom of shell. The separator cartridges can separate and isolate the waters out of the media with perfect hydrophobicity.

In this way, the coalescer filters can provide dry, pure, particle-free jet fuel, diesel fuel, turbine fuel, lubricating oil or insulating oil.



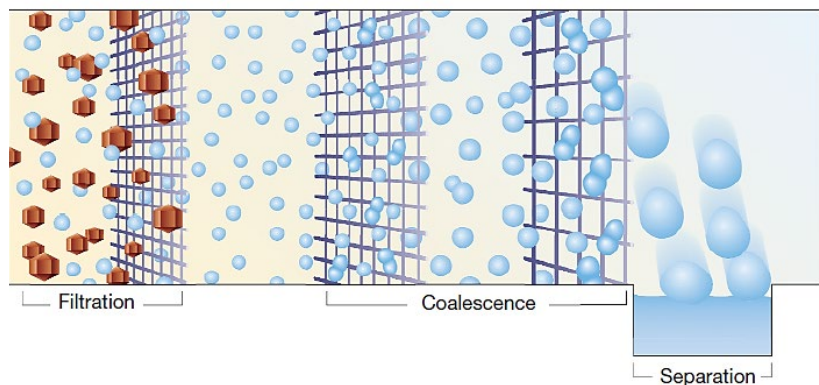
## Working Principle

Coalescer Filter is equipped with two filter elements with different functions –coalescer cartridges and separator cartridges.

Media enter coalescer filter shell and assigned to each coalescing filter by the coalescing filter tray, the liquid flow from internal to external of the coalescer cartridges and pass through filtration,

demulsification, coalescence and sedimentation processes. The multi-layer filter material can filter out solid particles and emulsion layer made of non-woven fibers can break the emulsion of media and gather small water droplets are gathered to large droplets and settling to the bottom of the shell. Some tiny liquid flow to the separation filter elements. Separator cartridge have a Teflon surface which has excellent hydrophobic performance. Small droplets were completely and effectively intercepted outside of the separation filter elements. The water settling to the bottom of the shell is shown by the level gauge, and the water and dirt can be discharged regularly through the drain valve. The water free media are collected by the separation filter tray and flows out of the outlet of the separator.

**Filtration → Coalescence → Separation.**





## Coalescer Cartridges Structure

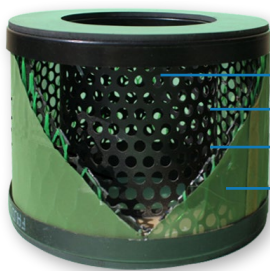
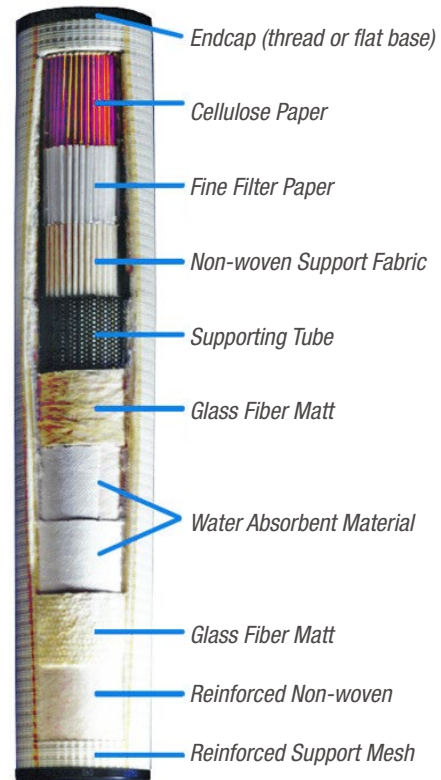
The main structures of coalescer cartridges include filtration layer, demulsification layer, gathering layer and separation layer.

The filtration layer is made of multi-layer pleated filter paper to filter out solid particles.

The demulsification layer is made of non-woven fibers to absorb tiny droplets onto the surface and separate the oil and water.

Gathering layer is made of water absorbent material to absorb and gather water into large droplets.

Separation layer is made of glass fiber matt, which allow the large droplets fall down and complete the water-oil pre-filtration.



Labels for the Separator Cartridge Structure:

- Inner frame
- Support layer
- Plastic mesh protection layer
- Teflon layer

## Separator Cartridges Structure

The separator cartridge is manufactured from inner frame, support mesh, plastic protection mesh and a hydrophobic material (Teflon) layer, which is specifically designed to repel water. Tiny waters are gathered on the Teflon layer and fall into the water collection sump after large water droplets form.

## Applications

The coalescer r cartridges and separator cartridges are widely used for:

- Filtration of aviation fuel, gasoline, kerosene and diesel;
- Filtration of cycloethane, isopropanol, cycloethanol, cycloethyl ketone, etc.
- Filtration of turbine oil and other low viscosity hydraulic oils and lubricants;
- Filtration of hydrocarbon hydrocarbons;
- Filtration of liquefied petroleum gas, stone tar, benzene, toluene, xylene, isopropyl benzene, polypropyl benzene, etc.
- Oil extraction, refining and natural gas extraction.





## Replacement Filter Elements



Yinbeier manufactures a complete line of replacement filter element for fuel filtration, our Inborn Filter™ are functionally and dimensionally interchangeable with industrial OEM filter manufacturer elements.

■ Manufacturer # □ Yinbeier #

	ST318FA-5	ST324FA-5	ST412FC-5	ST415FB-5	ST417FB-5	ST422FC-5	ST424FB-5
	HG729UZ-8	HG756UZ-8	HG625UX-8	HG628UY-8	HG624UY-8	HG655UX-8	HG656UY-8
	ST430FB-5	ST432FC-5	ST436FB-5	ST609FB-5	ST609FF-5	ST611FD-5	ST612FB-5
	HG673UY-8	HG675UX-8	HG670UY-8	HG031UY-8	HG031UU-8	HG022UW-8	HG025UY-8
	ST614FD-5	ST616FD-5	ST618FB-5	ST622FD-5	ST624FB-5	ST624FE-5	ST624FF-5
	HG026UW-8	HG020UW-8	HG029UY-8	HG055UW-8	HG056UY-8	HG056UV-8	HG056UU-8
	ST629FD-5	ST630FB-5	ST630FD-5	ST630FE-5	ST630FF-5	ST633FB-5	ST633FD-5
	HG051UW-8	HG073UY-8	HG073UW-8	HG073UV-8	HG073UU-8	HG077UY-8	HG077UW-8
	ST636FB-5	ST636FD-5	ST636FE-5	ST636FF-5	ST638FD-5	ST640FD-5	...
HG070UY-8	HG070UW-8	HG070UV-8	HG070UU-8	HG079UW-8	HG063UW-8	...	
	SO-1523	SO-1530	SO-404PL	SO-407PL	SO-417PLM	SO-424C	SO-424V
	HL-2857	HL-2873	HL-636KO	HL-634KO	HL-624KON	HL-656X	HL-656E
	SO-436C	SO-436V	SO-608B	SO-608C	SO-609V	SO-611C	SO-611PL
	HL-670X	HL-670E	HL-039Y	HL-039X	HL-031E	HL-022X	HL-022KO
	SO-611PLF	SO-611PLF1	SO-611PLF3	SO-614C	SO-614CB1	SO-614PL	SO-614PLBZ
	HL-022KOU	HL-022KOU2	HL-022KOU7	HL-026X	HL-026XY2	HL-026KO	HL-026KOYA
	SO-614PLF	SO-614PLF1	SO-614PLF3	SO-614PLF3D	SO-616C	SO-616CM	SO-616GS
	HL-026KOU	HL-026KOU2	HL-026KOU7	HL-026KOU7W	HL-020X	HL-020XN	HL-020TH
	SO-616PLF	SO-616PLF1	SO-616PLF3	SO-623C	SO-624VA	SO-629C	...
HL-020KOU	HL-020KOU2	HL-020KOU7	HL-057X	HL-056EZ	HL-051X	...	
	K-1.842	K.1-842	K.3-467	K.3-559	K.3-842	K.3-965	K.4-279
	P-2.965	P.2-965	P.7-604	P.7-881	P.7-965	P.7-108	P.6-541
	K.4-362	K.4-559	K.4-727	K.4-842	K.4-965	K.4-1093	K.4-1422
	P.6-705	P.6-881	P.6-454	P.6-965	P.6-108	P.6-2317	P.6-2655
	P.7-559	P.4-559	K.7-1422	P.1-842	P.3-467	P.3-559	P.3-842
	K.4-881	K.6-881	P.4-2655	K.2-965	K.7-604	K.7-881	K.7-965
	P.3-965	P.4-279	P.4-362	P.4-727	P.4-842	P.4-965	P.4-1093
	K.7-108	K.6-541	K.6-705	K.6-454	K.6-965	K.6-108	K.6-2317
	P.4-1422	Y.1-842/5	Y.4-467/5	Y.4-559/5	Y.4-842/5	Y.6-362/5	...
K.6-2655	B.2-965/8	B.6-604/8	B.6-881/8	B.6-965/8	B.0-705/8	...	
	C220049	Ci-3520	Ci-3520P	608061	A910176	Km6036-2	Ci3520-P
	X553361	Xr-7853	Xr-7853K	039302	Z123240	Pn0370-5	Xr7853-K
	Kmg-336	Kpmg-324					
	Pnt-770	Pknt-756					



## Manufacture & OEM

Hengshui Yinbeier Hydraulic Filter Co., Ltd. manufactures a complete line of industrial filter elements which are functionally and dimensionally interchangeable with industrial OEM filter manufacturer elements. Main brands are as follows:





# Custom A Filter

Our part number list is continuously update, if you can't not find you want, just submit the following forms and deliver to us via E-mail, our professional sales will reply you as soon as possible. You will get both the accurate prices and delivery.

**Part number you were looking for not found?**



An asterisk (\*) indicates a required field

**Name\***

**Company Name**

**Phone\***

**E-mail\***

**Part numbe\***

**Any other available information**

( such as quantity needed, requirements, etc. )

Inborn Filter™ laser equipment accurately marks your logo, phone number, website, part number or QR code, producing a spectacular presentation. so your customer will return to you for replacement elements.

Inborn Filter™ offers a variety of plating options, To meet the product different materials and your different needs.

**We can mark on: Stainless steel,  
Aluminum, Plated\*, Plastic**



**Inborn Filter™**  
HYDRAULIC FILTER

**Add:**

Jingxian County, Hengshui City, Hebei Province, China.

**Tel:**

+86-19831882282

**Web:**

www.umfilter.com

**E-mail:**

info@umfilter.com

# Design A filter



If your existing filter elements cannot achieve the promised service life or performance, maybe the filter elements are not compatible with your equipment. We can assist you design filter elements to solve existing problems and enhance filter element performance and service life.

Submit the following forms and let us know your current situations and problems for our design and recommendation.



An asterisk (\*) indicates a required field

**Name\***

**Company Name**

**Phone\***

**E-mail\***

**Max. Pressure\***

**Max. Temperature\***

**Filter Media\***

( oil, water, air, etc )

**Application Details\***

( equipment, element position, industry, etc. )

Inborn Filter™ laser equipment accurately marks your logo, phone number, website, part number or QR code, producing a spectacular presentation. so your customer will return to you for replacement elements.

Inborn Filter™ offers a variety of plating options, To meet the product different materials and your different needs.

**We can mark on: Stainless steel, Aluminum, Plated\*, Plastic**

**Max. Flow Rate**

**Filter Precision Requirements**

**Marks**

**Current Problems**

**Other Requirements**



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HYDRAULIC FILTER

**Add:**

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**Tel:**

+86-19831882282

**Web:**

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

**E-mail:**

[info@umfilter.com](mailto:info@umfilter.com)



#### **ABOUT YINBEIER & INBORN FILTER™**

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Jingxian County, Hengshui City,  
Hebei Province, China.

info@umfilter.com  
www.umfilter.com

**MANUFACTURE, CUSTOM & DESIGN**

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