

SINFTFILTER
HEBEI SINFT FILTER CO., LTD.

CUSTOM FILTRATION PRODUCTS SERIES

CONTACT US

+86 17730561616

filterelement@sinftfilter.com

www.sinftfilter.com

7th Building, Ruicheng City Plaza,
Jinshan Street, Shijiazhuang,
Hebei Province, China



Future | Professional | Partner
HEBEI SINFT FILTER CO., LTD.

SINFT ISO TESTING SERVICES

ELEMENT COLLAPSE/BURST RATING (ISO 2941) ▲

10 bard (150 psid) minimum for Coreless filter elements
20 bard (300 psid) minimum for Standard filter elements
210 bard (3,045 psid) minimum for High Collapse Strength filter elements.

FLOW FATIGUE (ISO 3724) ▲

Contact factory; filter element pleats are fully supported, both upstream and downstream to achieve excellent fatigue cycle life.

FLUID COMPATIBILITY (ISO 2943) ▲

Compatible with petroleum oils, water glycols, wateroil emulsions, and high water containing fluids. Fluorocarbon seals are standard, enabling use with industrial phosphate esters, diesters, and specified synthetics.

FLOW VS. PRESSURE DROP (ISO 3968) ▲

The operating flow rate and differential pressure of the filter element.

FABRICATION INTEGRITY (ISO 2942) ▲

Fabrication integrity is validated and assured during the manufacturing process by numerous evaluations and inspections including Bubble Point testing.

TEMPERATURE RANGE ▲

Fluorocarbon seals: -29°C (-20°F) to +120°C (+250°F)
Note: Maximum 60°C (140°F) in water based fluids.
Other seal materials available on application.



01 Supply Chain System

Professional purchasing team
Rich suppliers resources & Location advantages
Suppliers Management

02 Production System

Staff

Factory Director: 18 years experience
Senior Engineer: 1
Intermediate Engineers: 3
Senior Welders: 4
Intermediate Welders: 7
Crane Operators: 2
Forklift Operators: 3
Production Lines Workers: 64

Equipment

51 sets of welding equipment.
5 sets of cutting equipment.
20 sets of deformation equipment.
32 sets of molding equipment.
4 sets of packaging equipment
Production process with high quality control system.

03 QC System

Inspection Department

1 QC Manager: 14 years experience
6 quality inspectors

Inspection Equipment

Quadratic Projector
Bubbling Test Bench
Burst Tester
Air Permeability Tester
Spring Pressure Tension Tester
Handheld Spectrometer - for detection of metal content.

06 After Service System

1. Customers' Confidentiality Agreement. (including molds, drawings, products, pictures, etc.)
2. Regional Sole Dealer Service.
3. Free Samples Service.
4. Warranty.
5. Customer' Satisfaction Questionnaire.

92% of our customers are very satisfied with our products and service.

8% Problems: We never shirk the responsibility when there are complaints. Our factory will set up research groups ASAP, and offer positive solutions within 24 hours. 8D reports solution.

04 Storage System

Warehouse covers an area of 2100m²:

1 warehouse for finished products and 2 warehouses for raw materials.

370 sets of injection molds;
67 sets of die casting dies;
970 sets of stamping dies;
74 sets of powder die casting dies.

Filter Materials Inventory:

·Support Tube: Spiral welded tube, Perforated tube, Louvre welded tube, etc.

·End Caps: inventory of 1260 varieties and over 150,000 pcs.

·Fiberglass: HV: 1um, 3-6um, 10-12um, 20um, 40um

·Domestic Fiberglass: 1um, 3um, 5um, 50um, 70um, 35um (50KGS in stock). 10um (100KGS in stock), 15um, 20um, 25um, 40um (300KGS in stock)

·Filter Paper: Conventional inventory for hydraulic, oil and air filtration - 8 specifications and totally 16 tons

·Support tube: metal sheet in stock - thickness 0.3mm, 0.5mm, 1.5mm, 2mm and 12 tons in total

·Stainless Steel Wire Mesh: 2300m²

·Sintered felt: 460m²

·Sintered Wire Mesh: 1400m²

·Metal Powders with various particle sizes: 1.2 tons

* Entry and out Warehouse Management Software assists in orderly management.

05 Packing System

Standard packaging for filter elements: plastic bag + paper box + wooden case;

Outer packaging: foreign forklifts are different from domestic forklifts. We adopt European standard requirements.

Customized packaging for Candle Filters, Spray Gun Filter Elements, Differential Pressure Indicator, etc.

Special packaging: packaging design innovation; according to different product shapes and characteristics, we can design the packaging to avoid damage to the goods during transportation.

Product/package marking: laser marking on the products; screen printing, color-printed carton packaging, etc.



SINFTFILTER
HEBEI SINFT FILTER CO., LTD.

FUTURE · PROFESSIONAL · PARTNER

BRIEF

INTRODUCTION OF ENTERPRISE

HISTORY

SINFT is located in Shijiazhuang City, Hebei Province, covering 26,658m². Established in 2007, we have become an excellent manufacturer of brand-compatible spare parts in the industrial filtration and Oil Filtration Machine delivery industries with 17 years of experience accumulation and precipitation.

Product Category:

- Vacuum Oil Filter Machine
- High Pressure Filter Elements
- Low Pressure Filter Elements
- Hydraulic Filter Elements
- Coalescence and Separation Oil Filter Machine
- Stainless Steel Filter Elements
- Pipeline Basket Strainer (simplex & duplex)
- Replacement Filter Elements for over 200 brands

PRODUCTION

SINFT produces high quality filter machines and spare parts compatible with major brands in the world market with much more competitive prices. We measure our success by what our products do for you. Guided by a relentless drive to improve your products and processes, we bring our filtration know-how to your application. Our engineering and capabilities are in scope from superior design of basic filter elements to complex multi-layer media for sophisticated filter element applications. We use advanced, professional, automated and precise equipment to escort the orders. Quality at SINFTFILTER means more than making a product in the right way. Every employee thinks about what he or she does and what is expected by our customers.

CERTIFICATION



CONTENTS



Stainless Steel Filter Element

01



Sintered Metal Mesh Filter Element

05



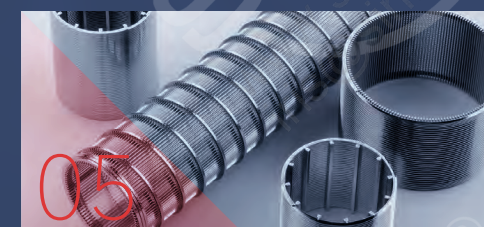
Wire Mesh Filter Parts

07



Notch Wire Element

09



Wedge Wire Filter Element

11

STAINLESS STEEL FILTER ELEMENT

Stainless Steel Cartridge Filters are used in applications where standard filters would not be appropriate. This could be due to high temperatures, high pressure, corrosive chemicals, or a desire to wash and re-use the filter element. Select filters suitable for backflushing. Typical filter construction is 304 / 316 stainless steel.



Applications:

steam filtration, chemical, food and beverage, pharmaceutical industries, etc.

SSP=Stainless Steel Pleated Element

Micron rating range:

2, 5, 10, 20, 40, 100

SSPF=Stainless Steel felt Pleated Element

Micron rating range:

3, 5, 7, 10, 25, 40, 60

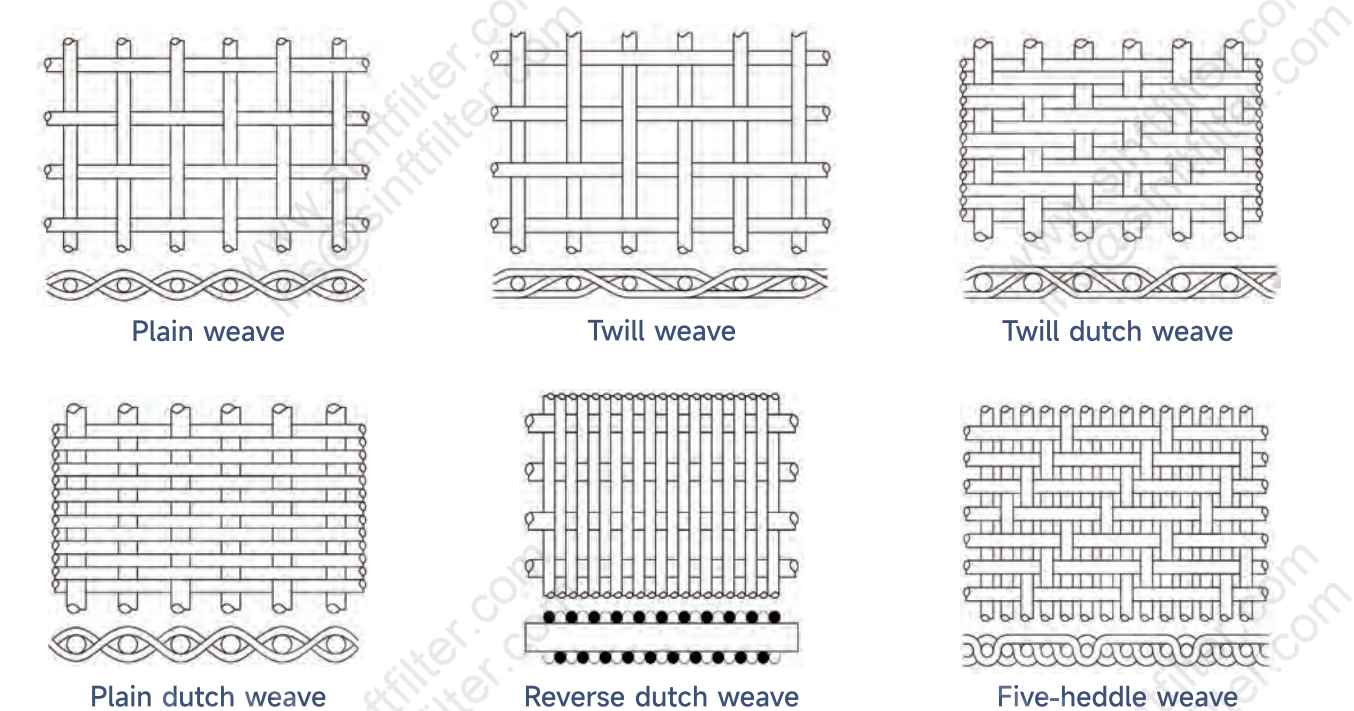
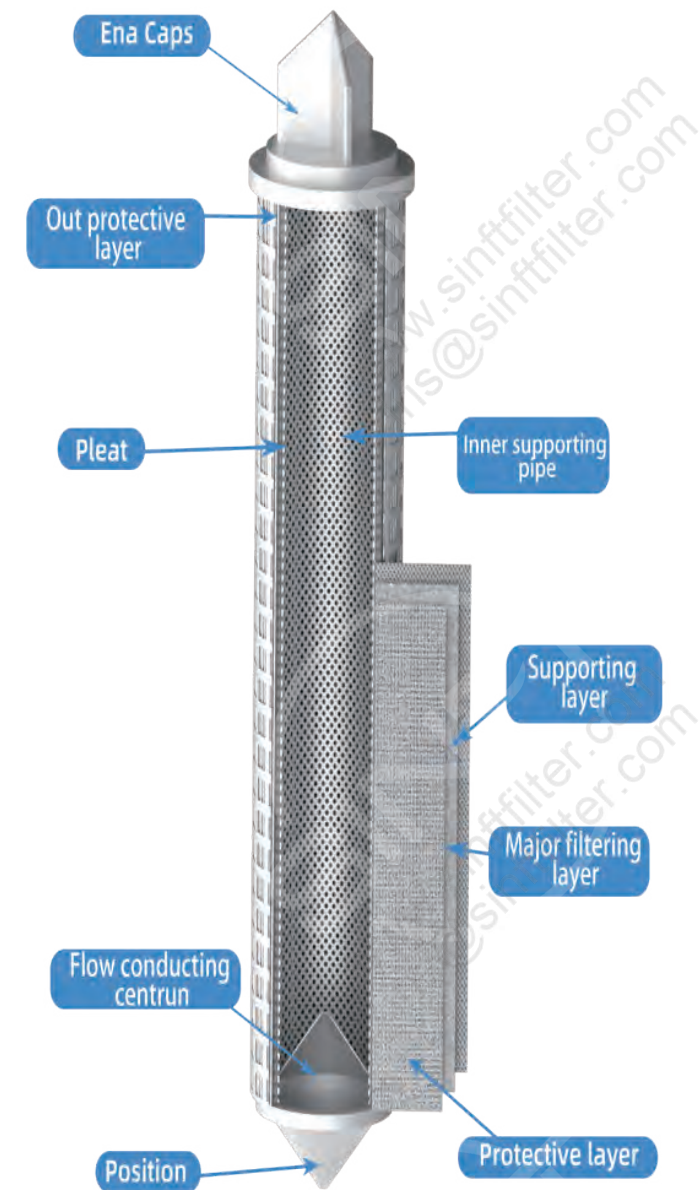
Raw Materials

- Filtration Media 304 ,316 ,316L
- Support Media 304 ,316 ,316L
- Outer Cage (If Used) ... 304 ,316 ,316L
- High Pressure Core 304 ,316 ,316L
- End Caps 304 ,316 ,316L
- Bonding Welded
- O-Rings/Gaskets Buna, EPDM, Silicone, Viton

Note: Buna-N and EPDM elastomers have a temperature limit of 250°F. Silicone and Viton can tolerate up to 400°F.



Sinft has stainless steel wire mesh, Dutch wire mesh, reverse Dutch wire mesh, five-heddle wire mesh and other weaving methods, which can perfectly match your needs, including customized solutions.



Technical data	
Initial differential pressure in a pure state	0.1 - 0.3 bar
Recommended differential pressure for filter change	2.5 bar
Permissible end differential pressure	6.0 bar

Applications
✓ Water treatment
✓ Chemical industry
✓ Pharmaceutical industry
✓ Beverage industry
✓ Food industry
✓ Paint and coatings industry
✓ Cosmetics industry
✓ Petroleum industry
✓ Photographic industry
✓ Environmental technology
✓ Hydraulic oil

Sintered felt

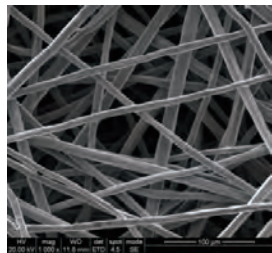
Sinft sintered felt is made of stainless steel, iron-chromium-aluminum, titanium, nickel and other metal fibers with micron diameters, which are laid and laminated with special non-woven fabrics and then sintered and welded at high temperatures. Filter elements can be made into various shapes, such as cylindrical, pleated or round. Due to its precise filtration precision and large porosity, it plays an important role in industry.

Property of sintered metal fiber felt (standard pressure and high pressure)

Standard metal fiber felt

Product Description:

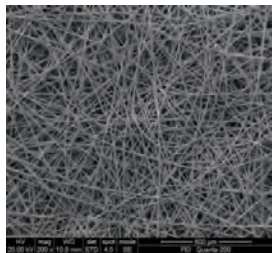
SinftAL3 series are widely used, pleated filter materials, which can be widely used in the filtration of polymerization and textile processes, and are also suitable for the filtration of other liquids.



High pressure type of fiber felt

Product Description:

SinftBL3 series is specially designed for the filtration of fluids with low viscosity, low pressure drop and low impurity content (such as hydraulic oil, fuel, etc.).



Note:

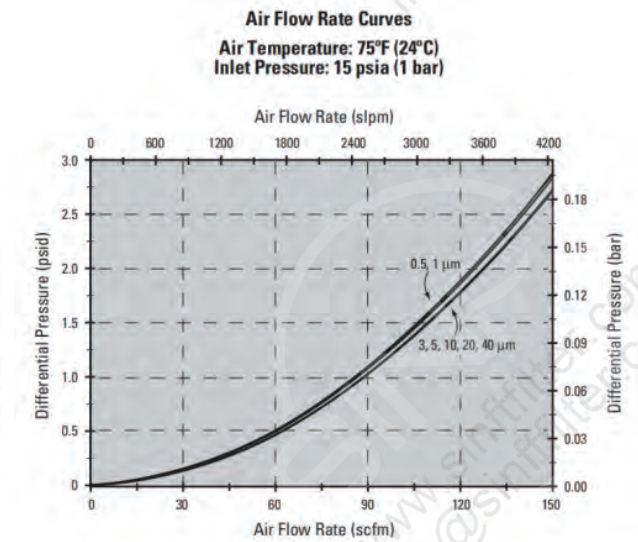
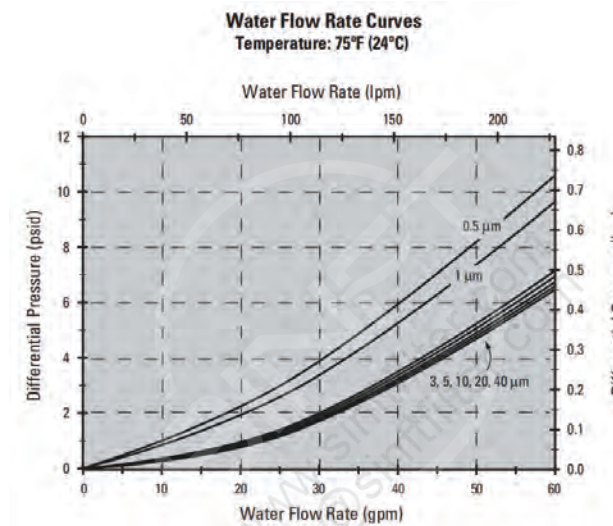
Bubble point test according to ISO4003, Air permeability test according to ISO4022, Size can be customized, Maximum size: 1180 mm × 1500 mm.



Quality Assurance

Sinft stainless steel filter elements use standard weaving wire mesh and undergo strict supplier management system and QC system to ensure the performance of the filter element from the source.

Pleated stainless steel filter Performance Attributes



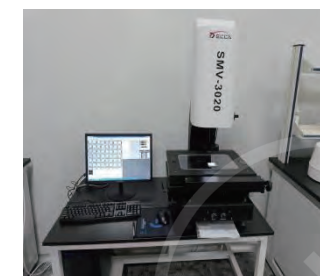
Material detection of pleated stainless steel filter element:



Passivation Test Kit:

During the test, formation of blue coloration indicates that the surface of the stainless steel does not yet pickled sufficiently. If blue coloration does not appear, it indicates surface has been satisfactorily pickled.

Secondary element detector:



ensure that the mesh is uniform and burr-free.

Blue dot solution



SINTERED METAL MESH FILTER ELEMENT

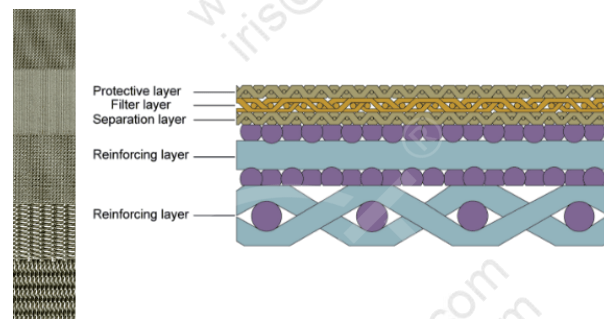
Sintered metal mesh filter elements are constructed of fine stainless steel wire mesh that is sintered at every wire contact point during the production process to produce an extremely surface-screening porous material with an extremely fine pore size distribution. Unlike unsintered mesh, sintered mesh media does not move under pressure. Sintering can also use finer mesh to create more pores per unit area for higher flow rates and higher dirt-holding capacity.

Application

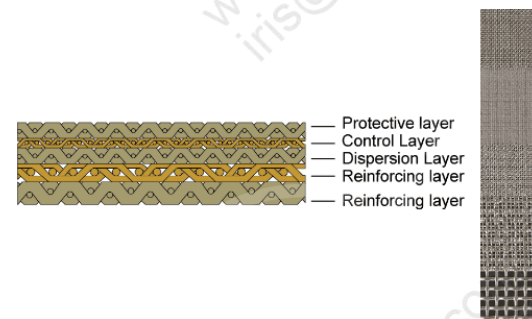
Pharmaceuticals, Fine Chemicals, Cosmetics, Water Treatment, Automotive, Petrochemicals. Our product range is extensive and covers applications in various industries. We are happy to provide advice on your needs.

Sintered Felt

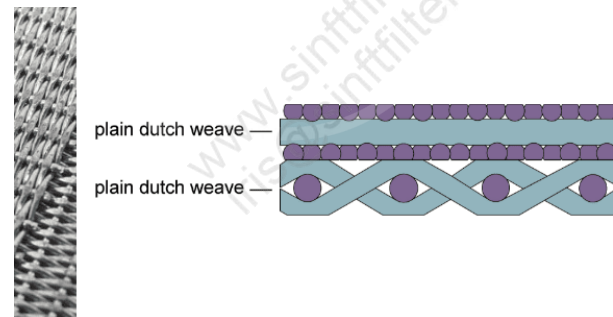
Standard 5-Layer Sintered Mesh



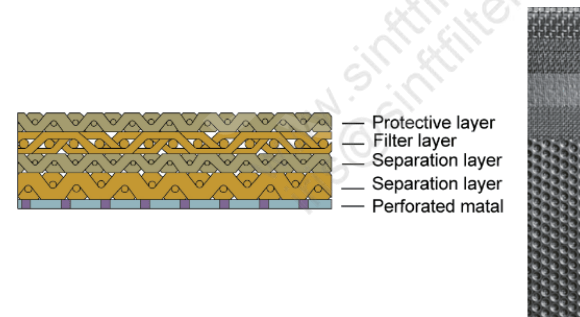
All Square Weave Sintered Mesh



All Dutch Weave Sintered Mesh



Perforated Metal Sintered Mesh



End Fitting

222, 226, DHKC, DOE, IS116, SKNC, etc.



Product Specification

- Minimum Diameter: 10mm
- Grade: 1-200um
- Temperature: -200°C to 600°C
- Standard length: 10", 20", 30", 40"
- Seal Materia: Silicon, EPDM, Viton, PFA/Viton, PTFE
- Standard connection:
 - Double open end
 - Single open end with threaded + cone/flat
 - Single open end with 222 + cone/flat
 - Single open end with 226 + cone/flat
- Other micron sizes,diameters,lengths,connections are also available upon request.

Advantages of Sinft Sintered Metal Mesh Filter Elements

The surface of the products shipped by Sinft is beautiful and has no scratches, the mesh is even and has no dark lines, and the welding is beautiful and formed in one go.



The mesh is even and burr-free.

WIRE MESH FILTER PARTS

With the capabilities of cutting, bending, pleating, welding, stamping, injection molding, calendaring, CNC lathe, ultrasonic cleaning, and laser marking, we can produce the wire mesh deep processing parts with precision and efficiency. We can offer the parts with rim, ring, handle, flange, thread, cap, O-ring, washer or gasket, etc. We work with any alloy, any shape, and any size to meet your need.



Typical Construction Details



Sinft's Advantages On Fabrication

Whether you need the parts made of woven wire cloth, perforated metal, sintered wire mesh, sintered felt, welded wire mesh, wedge wire screen or expanded metal, we have the expertise and equipment to deliver what you need. Our team is staffed with experienced professionals who are committed to meeting your needs.

- We know all the materials used for production.
- We know how to fabricate wire mesh.
- We know how to design the right products to suit your needs.
- We can provide drawings for approval.
- Our materials are available in any mesh or micron opening size.

We control and inspect our parts from the following points:

- Is the appearance without defects?
- Are all dimensions within tolerance?
- Are the burrs free?
- Do the parts confirm to the drawing?
- Do the seams line up and are they straight?
- Is the wire cloth taut or is it loose and wrinkled?



Our products meet the standard of ISO 9001, which ensures us to provide products and services consistently to meet both regulatory and customer requirements.

Specifications for Inquiry/Order	
Materials	(AISI304 EN1.4301, AISI316L EN1.4404, Monel 400 EN2.4360, Hastelloy C276, Hastelloy C22, etc.)
Rough Dimensional Sketch or Drawing	(We can provide drawings for approval if required.)
Mesh Specification	(mesh count, wire diameter, opening size or the particle size to be retained, etc.)
Construction Details	(type of seam, type of welding, support layers, etc.)
Quantity	(up to your request)

If you're not sure about the above details, just tell us your requirements and application, we can design and make samples for you.



NOTCH WIRE ELEMENT

Notch wire elements are made from specially processed (rolled) fine stainless steel wire (SUS304, SUS316L, etc.) wound around a cylindrical filter frame, allowing extremely precise setting of filter channel dimensions due to their simple construction and strong shape. Moreover, there is no corrosion or deterioration, and the impurities attached to the filter element can be easily removed by backwashing or blowing, so there is no need to replace the filter element, and its lifespan can be said to be semi-permanent.

FEATURES AND STRUCTURE ROBUST ELEMENT

Notch wire element is very robust because a single notch wire is wound around a cylindrical filter frame. Notch wire element achieves strength with a single-layer structure.

EASY WASHING

Because of the single-layer structure of the element, impurities adhered to the element can be easily eliminated by air blowing, and the cleaning effectiveness can be visually checked. For this advantage, many elements of this kind are used in sanitary (food) industry.

DIVERSE USAGE

The notch wire element is applicable to high viscosity fluid and the like under any specification conditions, including high temperature and high pressure.

APPLICATION

- Lubricating oil and fuel oil (heavy oil C) filtration for ships
- Ballast water filtration for ships
- Food and sanitary fluid filtration
- Steel industry filtering

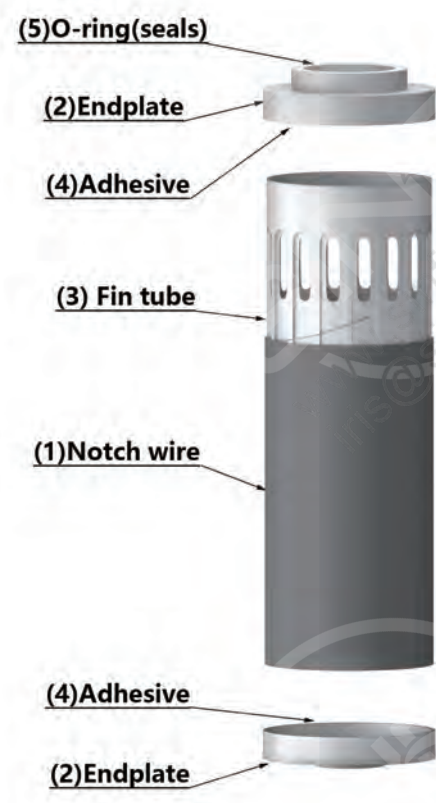
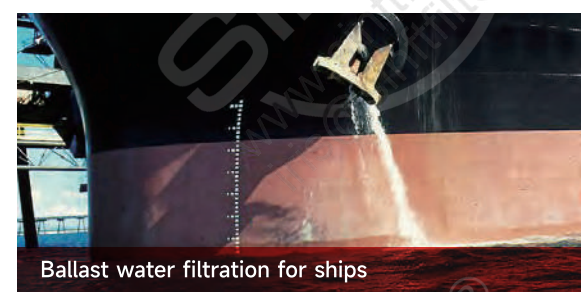


PRECISE FILTRATION SIZE

Notch wire element is capable of achieving a precise filtration size, which does not change even after the element is washed.

LARGE PASSING AREA

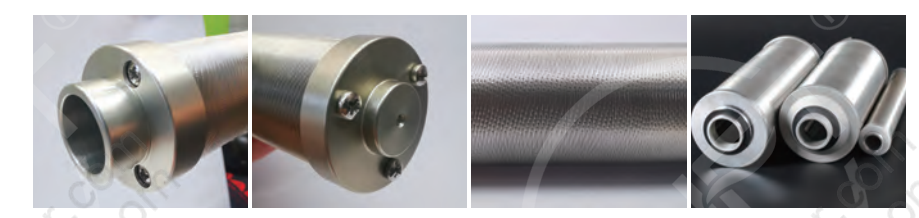
The single-layer structure of notch wire element ensures a large passing area.



Filter element selection

Sinft has many years of experience in the production and sales of notch wire element. The filter elements have been tested for many years and are well received by the market. Using Sinft notch wire element is your best choice.

Fuel type: K8FE, K-OF
Lubricating oil: K8ES, K8E, K-OL
Ballast water: KBW type



K8FE		
K8FE	K8FE22Y-W10/50	K8FE33AY-W50SX
K8FE1AY-W10X	K8FE3	K8FE33RAZSS10S/50X
K8FE1YW10	K8FE3AY-W50	K8FE33RLAZSS10LX
K8FE11VZSW10/42X	K8FE3RZS-S10	K8FE33VAZS-W10
K8FE11YW10X	K8FE3VAZ-W10LX	K8FE33VAZS-W20/35L
K8FE11YW50X	K8FE3VAZ-W35X	K8FE33VAZS-W35
K8FE2	K8FE3VAZS-W10LX	K8FE33VAZS-W35X
K8FE2VAZS-W50X	K8FE3VAZS-W10SX	K8FE33VAZS-W42/50X
K8FE2Y-W30X	K8FE3VAZS-W20S	K8FE33VAZS-W50
K8FE2VAZS-W10	K8FE3VAZS-W25S	K8FE33VAZS-W50X
K8FE2VAZS-W10X	K8FE3VAZS-W30X	K8FE33VAZST-W10X
K8FE2VY-MIO	K8FE3VAZS-W50	K8FE33VAZST-W30LX
K8FE2VY-W10	K8FE3VZ-W10X	K8FE33VZ-W50X
K8FE2VZ-W10	K8FE3VZ-W10SX	K8FE33VZS-W50X
K8FE2VZ-W10X	K8FE3VZ-W30X	K8FE33VZT-W50SX
K8FE2VZS-W10X	K8FE3VZ-W50	K8FE33Y-W10
K8FE2Y-W10	K8FE3VZS-W10	K8FE33Y-W35X
K8FE2Y-W10X	K8FE3VZS-W10S	K8FE33Y-W50X
K8FE2Y-W30X	K8FE3VZS-W30X	K8FE33Y-W50S
K8FE2Y-W35	K8FE3VZS-W30S	K8FE33VAZ-W10LB1/B2
K8FE22VAZS-W10XB1	K8FE3Y-W10	K8FE33VAZS-W10L
K8FE22VAZS-W10	K8FE3Y-W10X	K8FE33VAZS-W50XB1
K8FE22VAZS-W10X	K8FE3Y-W35	K8FE4
K8FE22VAZS-W10/35	K8FE3Y-W50X	K8FE4S
K8FE22VAZS-W35	K8FE3VAZS-W50	K8FE4VY-W40X
K8FE22VAZS-W50	K8FE3VAZS-W50B1/B2	K8FE4VZ-W10S
K8FE22VZ-W10X	K8FE33AY-W50	

KBETKBE*R		
K8E3/K8E3R	K8E6/K8E6R	K8E7SNHS-40LEX
K8E3VH-W50X	K8E6SNH-W50LX	K8E7SNZS-40LE
K8E3V0-W50	K8E6SNH-S40LE	K8E7SNZ-W50LEX
K8E4/K8E4R	K8E6SNZ-S40LEX	K8E7XH-W50
K8E4RVO-W30X	K8E6SNZ-W50LX	K8E7XY-W50X
K8E4VZ-W50	K8E6SNZ-	K8E8/K8E8R
K8E4XH-W50X	K8E6SXN0S40LEX	K8E8SNO-S40LEX
K8E4Y-W50X	K8E6VH-W50X	K8E8SOT-S40LEX
K8E5/K8E5R	K8E6X0-W50X	K8E9/K8E9R
K8E5VH-W50X	K8E6Y-W50X	K8E9NOH-W50X
K8E5VZ-W50X	K8E7/K8E7R	K8E10/K8E10R
K8E5XH-W50	K8E7RVH-S40X	K8E10S0-S40LX
K8E5XH-W50X	K8E7RXY-W40X	K8E10VNO-S40LE-X
K8E5XH-W62X	K8E7SN0S-40LEX	K8E101SNO-S40LE-X

WEDGE WIRE FILTER ELEMENT

Sinft product advantages

- Innovative Design
- Custom Designed and Engineered

Each project is engineered to ensure it meets the required specifications. We provide guidance and support from project conception to completion.

• A Highly Technical Product

The design and manufacturing characteristics of Vee-Wire surfaces provides the following advantages:

- Non-clogging surface
- Abrasion resistant
- High flow rates
- Extended product life
- Hydraulic efficiency
- Large open area
- Low-pressure drop
- Easy cleaning, with anti-cleaning capability

Quality

SINFT has been delivering reliable screens to various industries for more than 16 years and though technology has changed, our commitment to quality products and services doesn't change.



Hydac Tapered Wedge Tube

The conical shape and configuration of the filter elements allows consistent flow, resulting in a low pressure drop and complete cleaning of the filter elements.

Advantages:

- Fewer back-flush cycles
- Smaller back-flush volumes
- Lower differential pressure (Δp)



Candle filters

Direct filtration, Medium support (diatoms in filters)



Filter Nozzle

Economical, non-clogging, enhanced strength and corrosion resistance



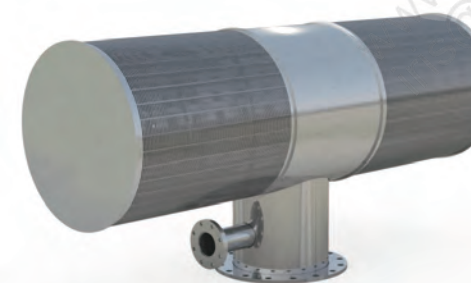
Resin Traps/Inline Strainer

Visible smaller media/resin, protecting downstream equipment



Screen Lateral Systems

Evenly collects or distributes gas/liquid, suitable for flow in any direction, and can accommodate various containers



Intake Screens

Typically used in hydroelectric, agricultural and drinking water applications



Wedge wire screens

Stronger, self-cleaning, better water filtration, requires less heat to manufacture



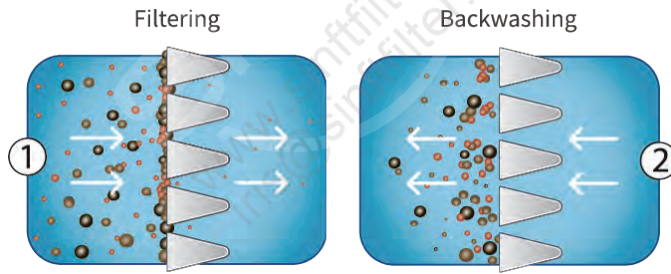
Flat Screens

In between malting batches, the screens are very easy to clean, reducing contamination of the process

Technical Information

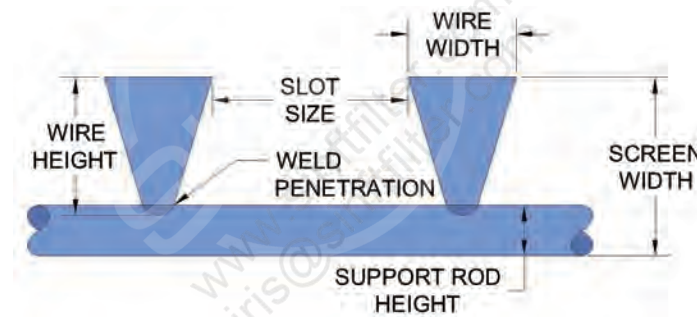
Wedge Wire Screens Flowing Direction

Filtration And Backwashing



Open Area Calculation

$$\text{Open Area (\%)} = \frac{\text{Slot Size} \times 100}{\text{Slot Size} + \text{Wire Width}}$$

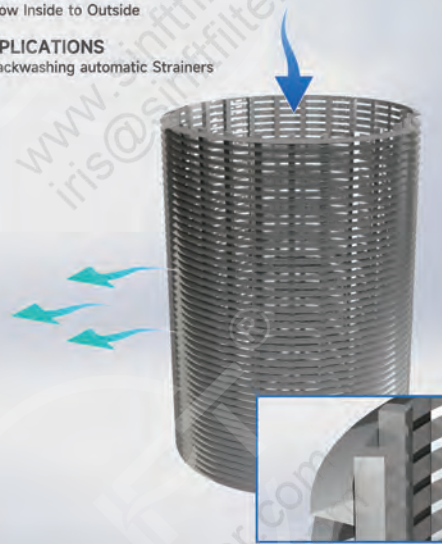


STANDARD TOLERANCE

Tolerance of slot size: +/- .002"
 Fabrication: +/- 1/16" (2 PL DEC = 0.020", 3 PL DEC = 0.010")
 Angles: +/- 1 degree
 Specialty tolerance maybe requested, especially on custom machined items.
Wedge Wire Screen Size
 Diameter: Screen diameters range from 0.750" to 38" and up in fabricated sections. Your specific tolerance and size requirements will be adhered to and will meet the required industry standards.
 Slot Sizes: Our slot sizes ranges from 0.015" to 0.265" and specific slot sizes are as shown below.

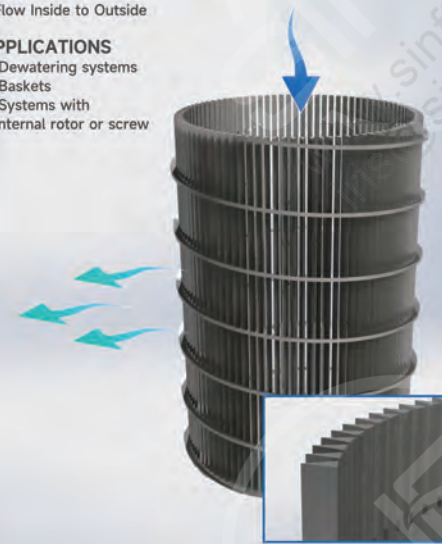
INVERTED WRAP

BENEFITS
 - Flow Inside to Outside
APPLICATIONS
 - Backwashing automatic Strainers



INTERNAL AXIAL

BENEFITS
 - Flow Inside to Outside
APPLICATIONS
 - Dewatering systems
 - Baskets
 - Systems with a internal rotor or screw



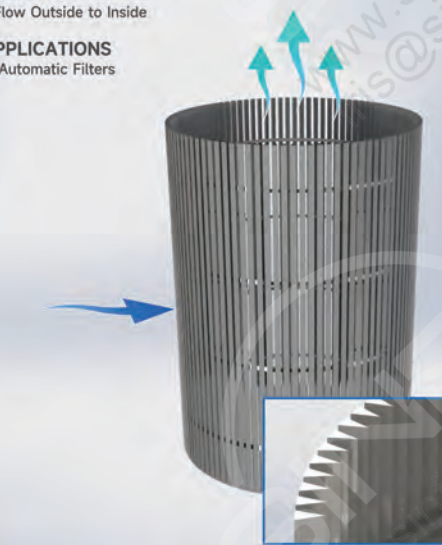
STANDARD WOUND

BENEFITS
 - Flow Outside to Inside
APPLICATIONS
 - Resin Traps
 - Nozzles
 - Header laterals
 - Candle Filters



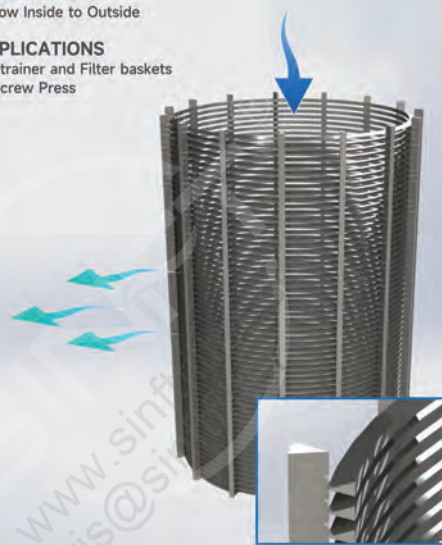
EXTERNAL AXIAL

BENEFITS
 - Flow Outside to Inside
APPLICATIONS
 - Automatic Filters



REVERSE FORMED

BENEFITS
 - Flow Inside to Outside
APPLICATIONS
 - Strainer and Filter baskets
 - Screw Press



Quality Assurance

At SINFT, we take immense pride in our commitment to delivering top-notch wedge wire products. Recent concerns raised by our clients regarding subpar items from alternative suppliers have prompted us to reaffirm our dedication to unparalleled quality. Our wedge wire screen stands out for its precision, durability, and flawless performance. We understand the critical importance of reliability in your applications and assure you that our products consistently meet the highest standards. Choose SINFT for wedge wire excellence where quality is not just a promise but a guarantee. Comprehensive quality inspection report will be offer before shipment, and unqualified products are prohibited from leaving the factory.



Quality Standards

We adhere to internationally recognized standards, such as ISO, ASTM, GB/T, and JIS, as well as any customer-specific standards.

Raw material standard	ASTM A580/A580M Specification for Stainless Steel Wire
	ASTM A269 Standard Specification for Seamless Stainless Steel Tubing
	ASTM A555/A555M Standard Specification for Stainless Steel Wire and Wire Rods
Slot Standard	Slot Tolerances As Per ISO Standard
Dimensions Tolerance standard	ISO 13920-GENERAL TOLERANCES FOR WELDED CONSTRUCTIONS
Product Standard	JB/T 3278-2015: Welded Sieve Plate With Batten
	SY/T 5182-2008: Wire-Wrapped Stainless Steel Screen Pipe
	JB/T 4265-1999: Sieve Bend
	GBT 26886-2011: Grain and oil machinery – Pressure screen
Thread Standard (Flange & Pipe Thread)	ISO 17824:2009 (Modified): Petroleum and natural gas industries – Downhole equipment – Sand screens
	ASME B16.5-2017: Pipe Flanges and Flanged Fittings
	ASME B1.20.1-2013: Pipe Threads, General Purpose (Inch)

Wire and Rod Information										
Name	20	30	47	63	69	93	118	130	191	
Width/in	0.020	0.030	0.047	0.063	0.069	0.093	0.118	0.130	0.191	
Height/in	0.040	0.050	0.088	0.100	0.177	0.138	0.185	0.250	0.363	
Section Area/in ²	0.0005	0.001	0.003	0.004	0.010	0.009	0.015	0.023	0.055	
Relief Angle	11°	13°	10°	13°	7°	13°	13°	8°	5°	

Profiles - Most Commonly Used											
	20	30	47	63	69	93	118	121	130	158	191

Shaped Support Rods						
Name	29	63	93	XJR	60SR	156
Width/in	0.029	0.060	0.089	0.089	0.060	0.151
Height/in	0.102	0.100	0.138	0.189	0.120	0.217
Section Area/in ²	0.003	0.004	0.009	0.013	0.006	0.022
Section Modulus (in ³ x 10 ⁻³)	0.037	0.050	0.150	0.298	0.077	0.600