



# PRODUCT CATALOG

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Metal mesh and filter solutions

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# COMPANY PROFILE

**Anping Tianhao Wire meshes products Co., Ltd**  
Located in wire mesh hometown of China——  
Anping County. It is a comprehensive enterprise  
of manufacturing, marketing, importing and  
exporting. We have advanced equipment and  
professional R&D team. Main products are  
different kinds of metal wire mesh and related.  
Main products are different kinds of metal wire  
mesh and related deep processing filter mesh.  
Such as stainless steel wire mesh, copper wire  
mesh, nickel wire mesh, monel wire mesh, Inconel  
wire mesh, Hastelloy wire mesh, Nichrome wire  
mesh, Feral wire mesh, titanium wire mesh, mesh  
filter tube, mesh filter cap, mesh filter disc and so  
on.

**Area:** 99000m<sup>2</sup>

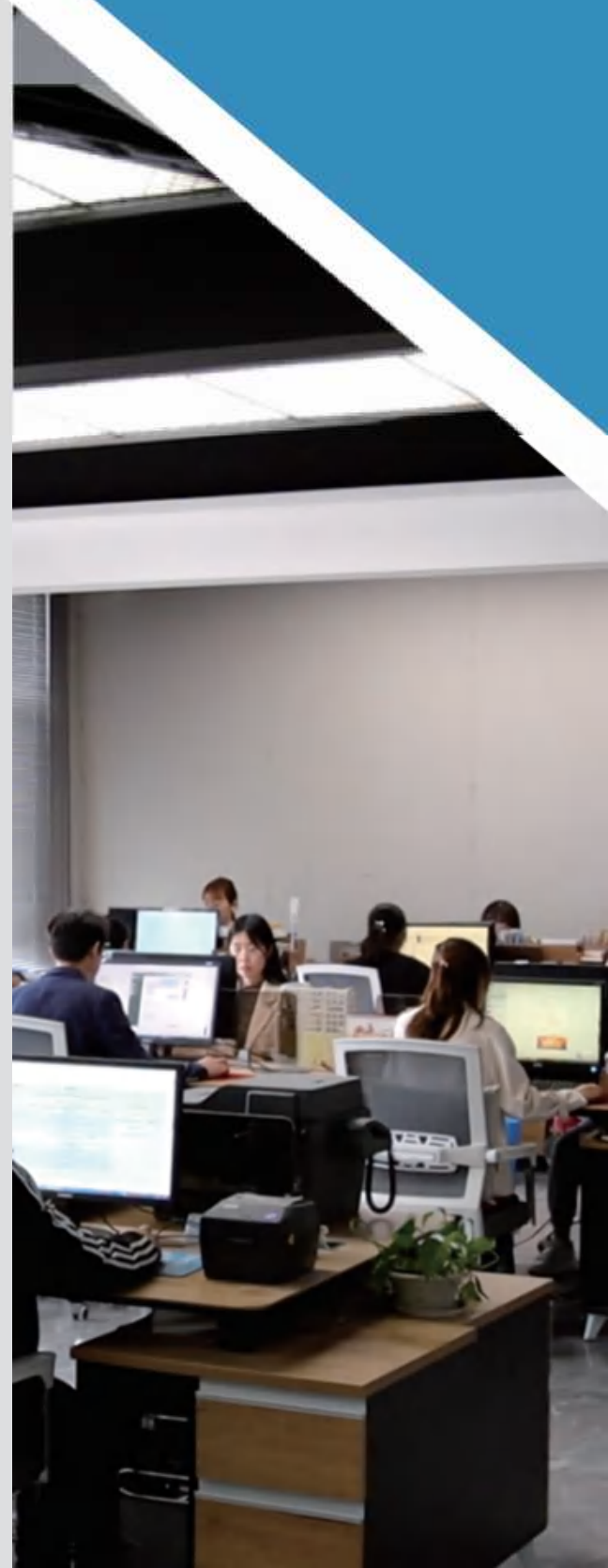
**No. of Employees:** 200+ people

**No. of QA/QC Inspector(s):** 12 people

**Export Markets:** Europe, South America,  
Australian, North America, Asia etc.

**Annual Revenue:** USD USD 10.678.360,00

**Certificates:** ISO9001 certificate, SGS certificate



# Nickel Alloy Wire Mesh

## Inconel Wire Mesh

1. **Material:** Inconel600(N06600), Inconel601(N06601), Inconel625(N06625), Inconel718(N07718), InconelX-750(N07750).

2. **Mesh count:** 2-200mesh.

3. **Weave:** Plain weave, twill weave, dutch weave.

4. **Features:**

Non-magnetic, good oxidation resistance and high temperature resistance, good resistance to corrosion and cracking under normal or high temperature conditions, good mechanical properties.

5. **Application:**

Petrochemical, aerospace industry, hydropower, nuclear power, oil refining and shipbuilding, chemical, machinery manufacturing industries.

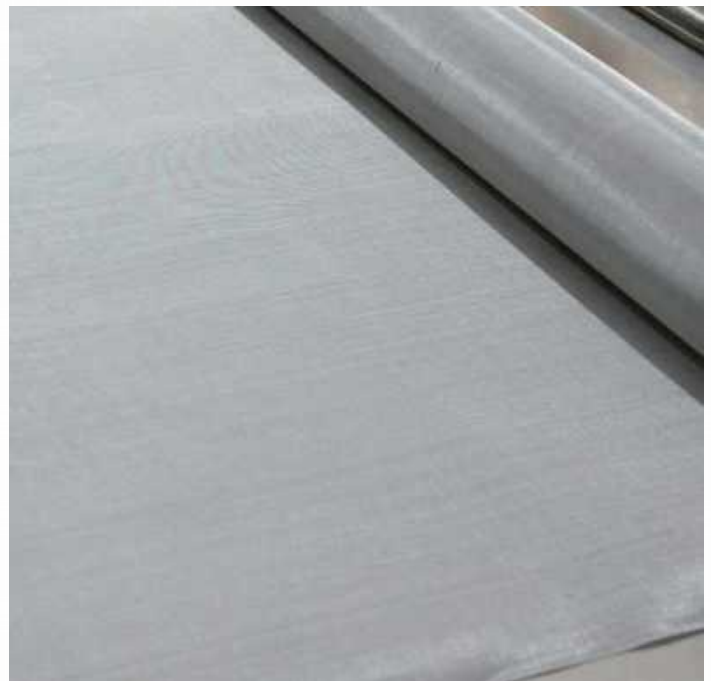
6. **Chemical Composition:**

Grade	C	Cr	Cu	Fe	Mn	Ni	S	Si	Al
Inconel601	0.1	21-25	1.0	Rem.	1.0	58-63	0.015	0.5	1.0-1.7

Grade	C	Cr	Fe	Mn	Ni	S	Si	Al	Cb	Mo	P	Ti
Inconel 625	0.1	20- 23	5.0	0.5	Rem.	0.15	0.5	0.4	3.15- 4.15	8- 10	0.015	0.4

Grade	C	Cr	Cu	Fe	Mn	Ni	S	Si	Al	Cb	Mo	P	Ti	B	Mo	Co
Inconel 718	0.08	17- 21	0.3	Rem.	0.035	50- 55	0.015	0.35	0.2-0.8	4.75- 5.50	2.8- 3.3	0.015	0.65- 1.15	0.006	0.08	1.0

Grade	C	Cr	Cu	Fe	Mn	Ni	S	Si	Al	Cb	Ti
Inconel X750	0.08	14- 17	0.5	5-9	1	70	0.01	0.5	0.4-1	0.7-1.2	2.0-6.0



# Nickel Alloy Wire Mesh

## Hastelloy Wire Mesh

1. **Material:** Hastelloy wire B-2, B-3, C-22, C-276.

2. **Mesh:** 2-200 mesh.

3. **Features:**

Corrosion resistance; acid and alkali resistance; high temperature resistance; Salty resistance; chemical stability; outstanding filtering performance.

4. **Application:**

Hastelloy wire mesh is a nickel-based alloy wire mesh. It is the alloy of nickel, molybdenum and chromium. Hastelloy wire mesh is the best corrosion resistant material among all of metal materials. It has various application: Chemical industry; Petrochemical industry; Flue gas desulfurization; Pulp and paper; Environment protection industry and so on..

5. **Chemical Composition:**

Type	C	Co	Cr	Cu	Fe	Mn	Mo	Ni	P	S	Si	Sn	V	W
H-B	0.12	2.5	1.00	-	6.0	1.0	26.0-30.0	Rem.	0.01	-	0.03	-	0.6	-
H-C22	0.015	2.5	14.5-20.0	-	2.0-6.0	0.5	12.8-14.5	Rem.	0.01	0.02	0.08	-	0.35	-
H-C276	0.02	2.5	14.5-16.5	-	4.0-7.0	1.0	15.0-17.0	Rem.	0.03	0.03	0.08	-	0.35	3.0-4.5
H-X	0.08	-	17.0-20.0	1.0	Rem.	2.0	26.0-30.0	34.0-37.0	0.03	0.03	0.75-1.50	0.025	-	-



# Special Material Wire Mesh

## Pure nickel Wire Mesh

1. **Material:** N2,N4,N6,N8.

2. **Mesh count:** 1-300mesh Wire diameter:0.03-1.0mm.

3. **Weave:** Plain weave,twill weave,dutch weave.

4. **Features:**

Excellent corrosion,acid and alkali resistance.

High electrical conductivity.

Thermal conductivity and ductility.

Heat resistance,wear resistance.

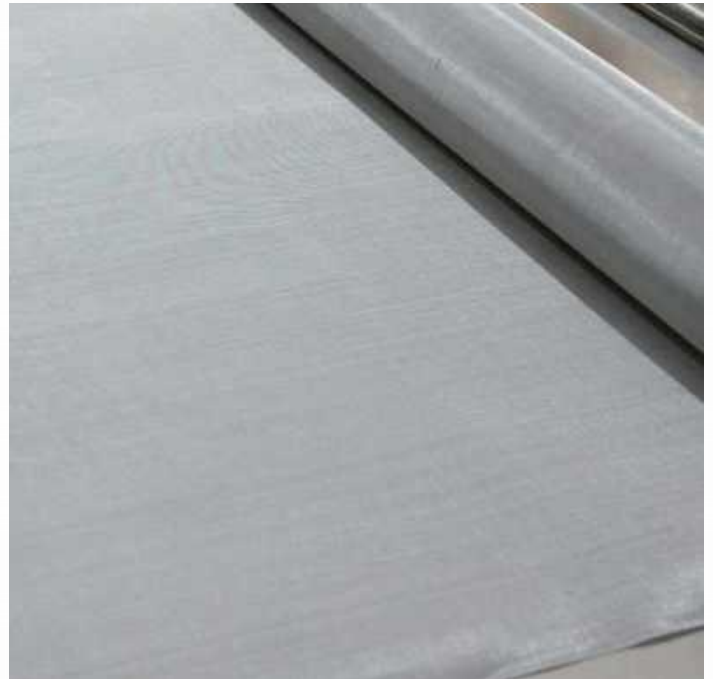
5. **Application:**

Widely used as the filtration materials in the mining,oil,chemical,food,pharmaceutical,machine and other fields.Has high electrical conductivity,so it can be used in the electronics.

can be used for battery production.

6. **Chemical Composition:**

Grade	Ni+Co	Cu	Si	Mn	C	Mg	S	Fe	Impurity sum
	Min.	Max.							
N2	99.98	0.001	0.003	0.002	0.005	0.003	0.001	0.007	0.02
N4	99.90	0.015	0.030	0.002	0.010	0.010	0.001	0.040	0.10
N6	99.50	0.030	0.100	0.050	0.100	0.100	0.005	0.100	0.50
N8	99.00	0.150	0.150	0.200	0.200	0.100	0.015	0.300	1.00



# Special Material Wire Mesh

## FeCrAl Wire Mesh

1. **Material:** 1Cr13Al4, 1Cr12Al4, 0Cr21Al6, 0Cr23Al5, 0Cr25Al5, 0Cr21Al6Nb, 0Cr27Al7Mo2.

2. **Mesh:** 2-200 mesh.

3. **Weave:** Plain weave, twill weave.

4. **Max working temperature:**

1Cr13Al4 - 950°

1Cr21Al4 - 1100°

0Cr21Al6 - 1250°

0Cr23Al5 - 1250°

0Cr25Al5 - 1250°

0Cr21Al6Nb - 1350°

0Cr27Al7Mo2 - 1400°

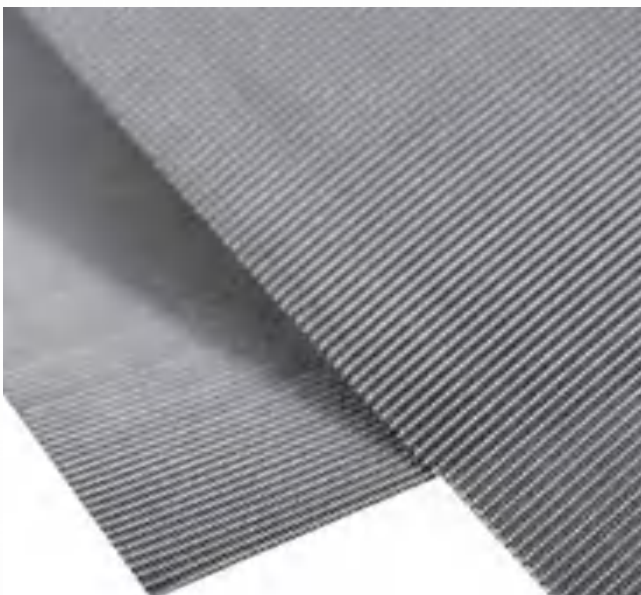
5. **Features:**

FeCrAl wire mesh is also called FeCrAl alloy woven wire mesh, heating resistance alloy woven wire mesh, electro thermal alloy mesh. It has features: heating resistance, oxidation resistance, sulfur resistance, anti-penetration, high surface load, high electrical resistivity, long lasting and durable.

6. **Application:**

The FeCrAl wire mesh is mainly used as the drying and heating equipment in metallurgy, colliery, dyeing, food factory, hospital, high density board factory and so on.

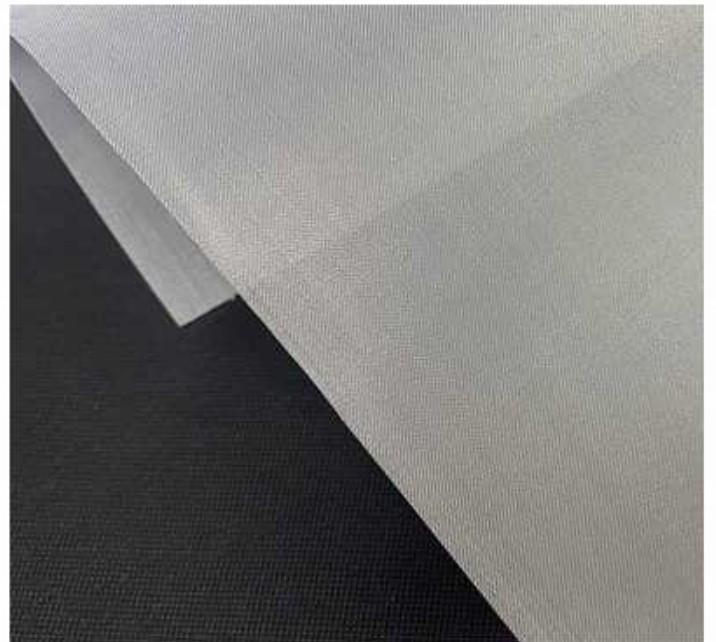
The FeCrAl wire mesh is an ideal heating resistance material in the industry electric furnace, household appliances, gas burners and infrared device.



# Special Material Wire Mesh

## Silver Woven Wire Mesh

1. **Technique:** Warp pure silver wire and weft cross wire cross woven. Hole shape is generally square or rectangular.
2. **Purity:** 99.99%.
3. **Wire diameter:** 0.08-0.3mm.
4. **Mesh:** 10mesh, 18mesh, 20mesh, 40mesh, 60mesh, 80mesh, 100mesh.
5. **Mesh width:** 1200mm, 1000mm, 600mm, 400mm, 200mm, 100mm, 50mm, 20mm, can be customized mesh count, width and length according to customer's requirement.
6. **Features:**  
Silver woven wire mesh is also called silver mesh, silver wire mesh, pure silver mesh, pure silver woven wire mesh. It is with good electric conductivity, thermal conductivity and ductility.
7. **Application:**  
Silver woven wire mesh can be used as battery collector mesh, electrodes and battery skeleton mesh, also as filtration material in the high precision filtration equipment.



# Stainless Steel Rope Wire Mesh

## Stainless Steel Rope Wire Mesh

1. **Product Name:** Stainless steel rope wire mesh.
2. **Material:** 304,304L,316,316L Stainless steel wire.
3. **Size:** Customized.
4. **Hole shape:** Diamond hole.
5. **Wire diameter:** 1mm~5mm or customized.
6. **Opening size:** 2" x 2",3" x 3" and 4" x 4".or customized.
7. **Feature:**  
Hand knitting,Light weight,high-strength,rustless,eco-friendly,safety,long service life,Corrosion resisatant,easy -assembly.

### 8. Application:

Steel Mesh Balustrade,Cable Mesh,Safety Net,Helipad Safety Net,Cable Zoo Mesh,Aviary Netting.

### 9. Advantage:

High strength,strong toughness,free-angles curving and fold,easy for transportation and installment.

Anti-corrosive,resist the rust,can be repeated use.

Resists chewing by rodents and other pests.

This product can bear the heavy snow and the gale very much.

Without toxic material,safety,environmental protection.

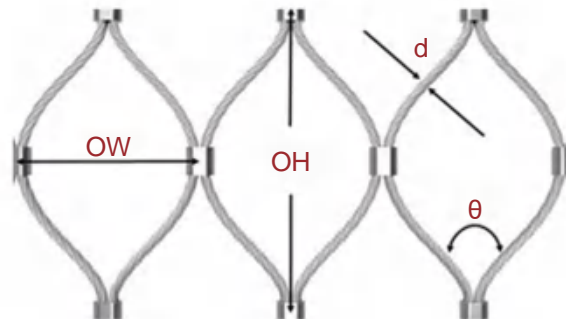
## Selection:



Knotted mesh



Ferruled mesh



For measuring purposes the ferruled mesh is assumed to be stretched to create a 60° angle at the top and bottom of the diamond.

OW = Opening Width  
OH = Opening Height  
d = Rope Diameter  
θ = Degree of angle



# Special Material Wire Mesh

## Decorative Wire Mesh

1. **Product name:** Stainless Steel Fireplace Decorative Curtains Cascade Metal Coil Curtain Metal Mesh Chain Drapery Fabric.

2. **Color:** silver/golden.

3. **Wire Diameter:** 1.0mm - 2.0mm.

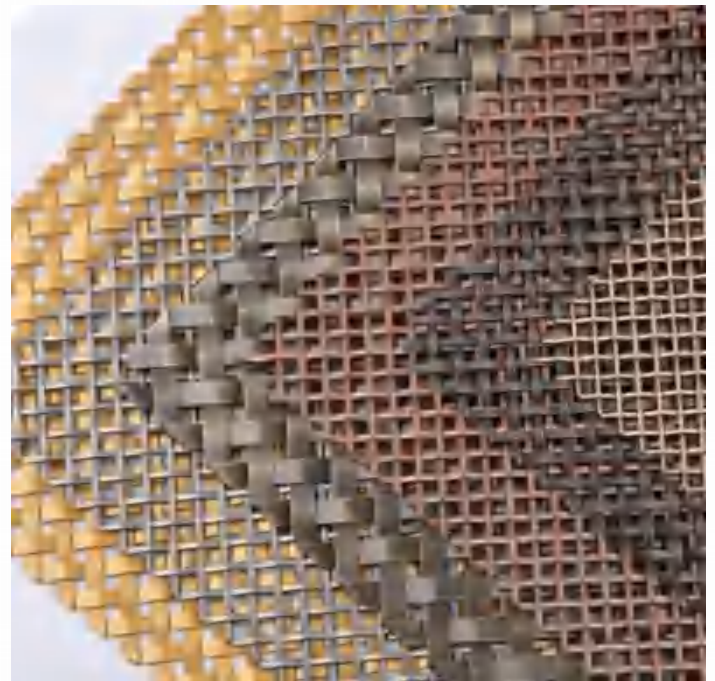
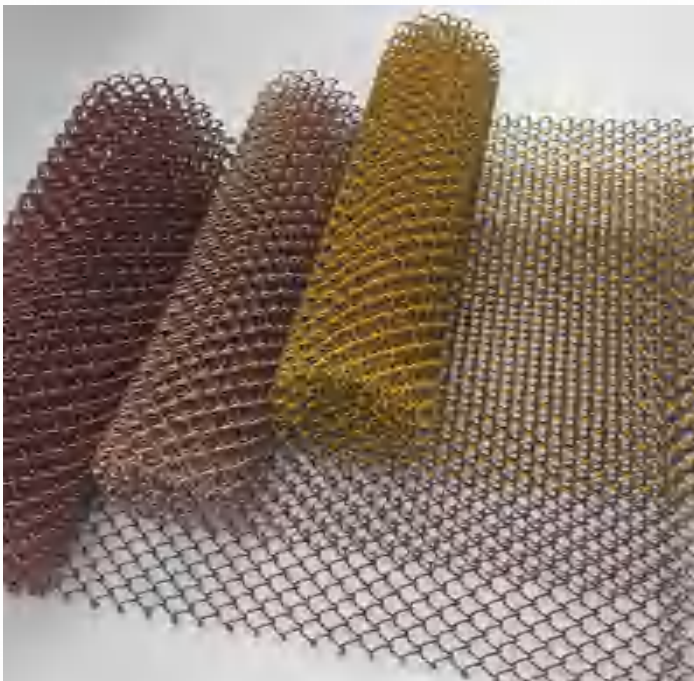
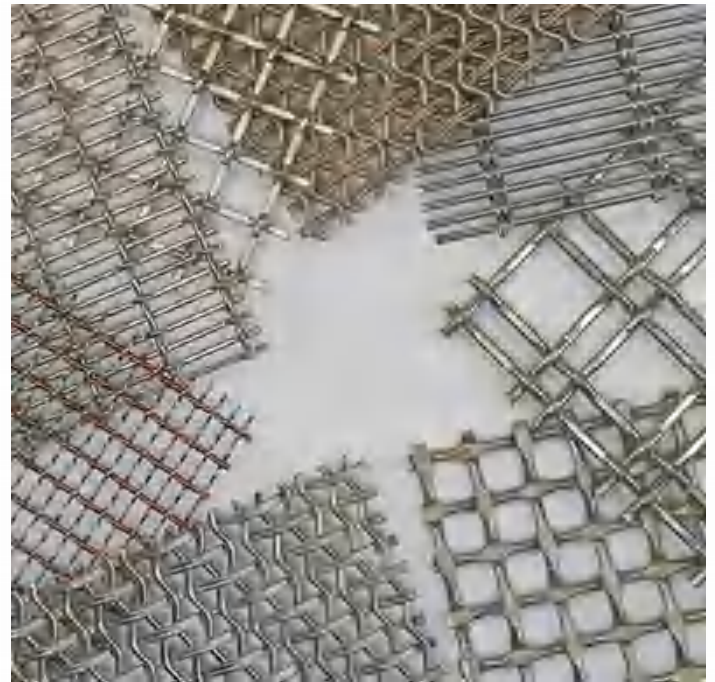
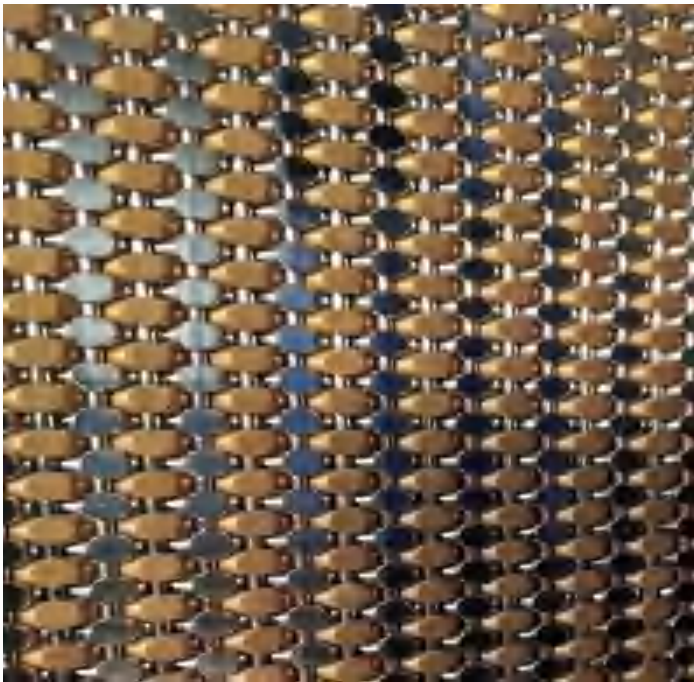
4. **Mesh opening:** 4\*4mm, 5\*5mm, 6\*6mm, etc.

5. **Material:** Aluminum alloy wire, Stainless steel wire, Copper wire, etc.

6. **Samples:** Free and available.

7. **Application:**

It's widely used in both interior and exterior architectural decoration, such as in exhibition halls, living rooms, restaurants, hotels, bathroom, decoration-ceiling lamp, wall covering, display, light partitioning, Fireplace mesh screen, also be made scrubs, laser and other effects.

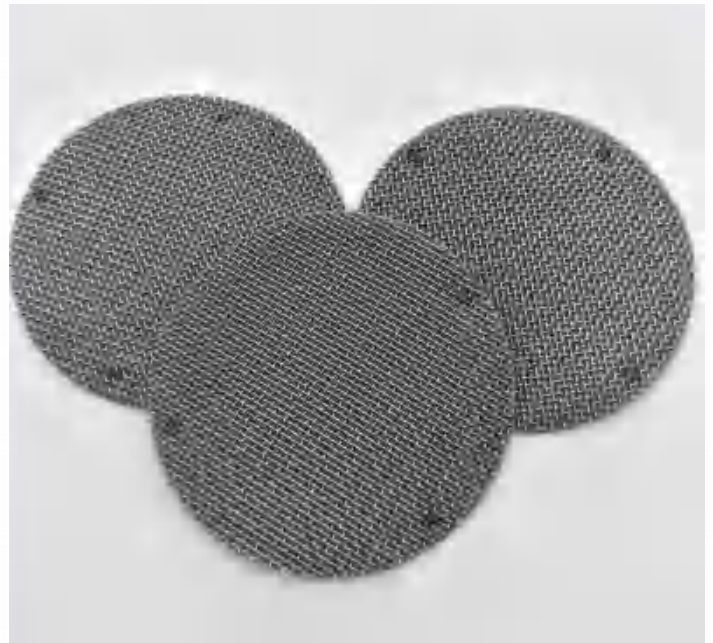
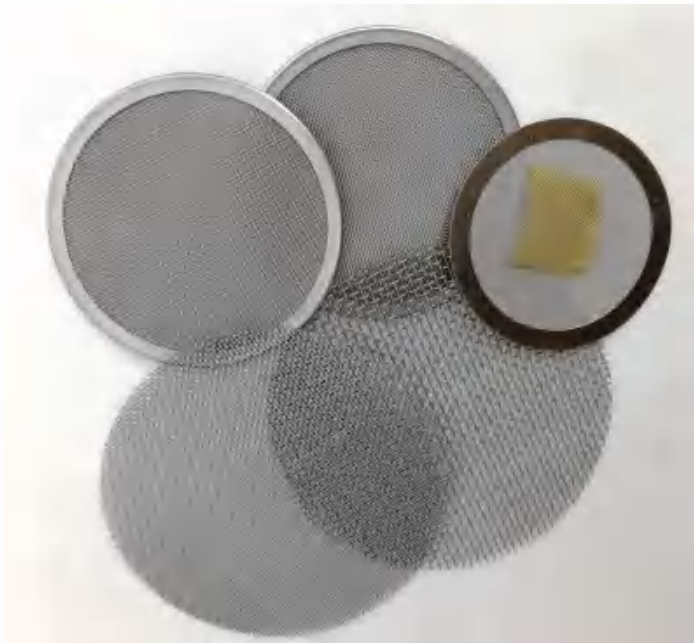


# Deep Processing Mesh Filters

## Filter Disc And Packs

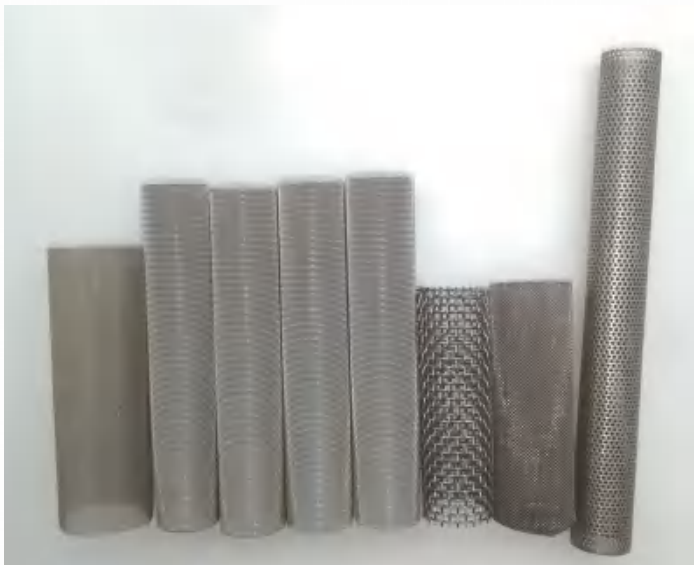
1. **Material:** stainless steel mesh, galvanized wire mesh, copper wire mesh, dutch weave wire mesh, black wire mesh, perforated metal mesh, nickel wire mesh, monel mesh, inconel mesh etc.
2. **Edge Material:** stainless steel sheet, copper sheet, galvanized sheet, aluminum sheet, low carbon iron sheet, rubber, plastic etc.
3. **Shape:** rectangle, square, round, oval, circular, cap, waist and enormity.
4. **Structure:** single layer, double layer and multi-layers.
5. **Process Technique:** Spot welded, edge covering and sintered.
6. **Filter Packs Out Diameter:** usually 5mm-600mm.
7. **Application:**

Filter disc is mainly used in distillation, absorption, evaporation and filtration process of rubber, plastic industry, the screening of grain and oil, petroleum, chemical industry, light industry, medicine, metallurgy, machinery, shipbuilding and other industries, can also be used air filter for car.



## Mesh Filter Tube

1. **Material:** stainless steel woven mesh, sintered mesh, perforated metal.
2. **Features:** made of single layer or multi-layer metal mesh, the metal mesh layer and mesh count are decided by different conditions of use and purpose, with high concentricity rate, big pressure resistant, stainless steel material, no burr, long service life.
3. **Application:** petroleum chemical industry, oil field pipeline filter, fuel refueling equipment filter, water treatment equipment filter, pharmaceutical and food processing field etc.



# Deep Processing Mesh Filters

## Mesh Filter Cap

1. **Material:** stainless steel woven mesh, sintered mesh, perforated metal.

2. **Features:**

Filter Cap is made of single layer or multi-layer metal mesh. The metal mesh layer and mesh count are decided by different conditions of use and purpose. With high concentricity rate, big pressure resistant, stainless steel material, no burr, long service life.



## Etching Disc And Basket

1. **Material:** stainless steel and plain steel.

2. **Plate thickness:** 0.1 mm - 1 mm.

3. **Max plate size:** 500 mm × 600 mm.

4. **Hole size:** Min. 0.03 mm.

5. **Advantages:**

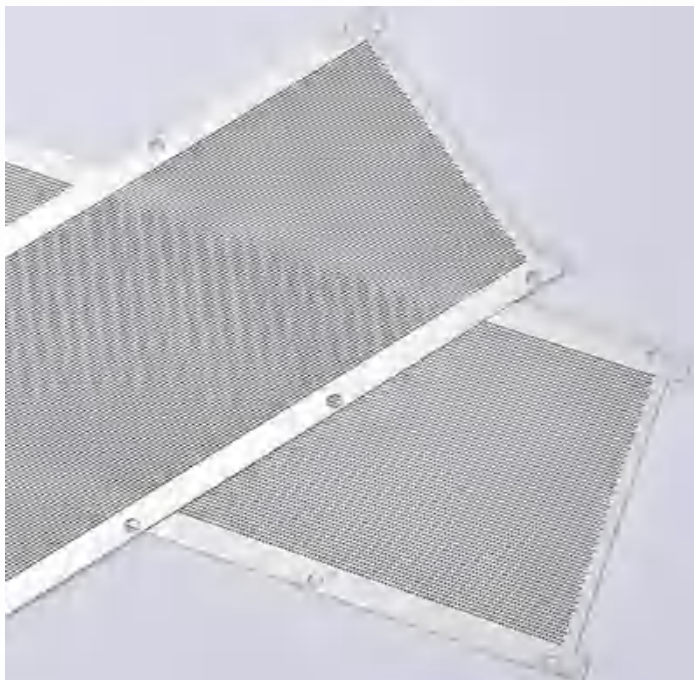
Super fine holes for high precision filtration.

No welding, no burrs, no broken points and no plugging holes ensure the most reliable filtration.

Available in thousands of different plate shapes and hole patterns.

No need open tooling or moulding for low cost.

High tolerance  $\pm 0.01$  mm.



# Wedge Wire Screen

## Wedge Wire Screen

1. **Name:** V shape wire screen, Johnson wire screen, wire wrapped screen etc.

2. **Material:** 304, 316, 316L, 2205, 2507, Titanium, Hastelloy etc.

3. **Type:** Screen tube and screen plate.

4. **Minimum micron size:** 25um.

5. **Features:**

High strength and high hardness.

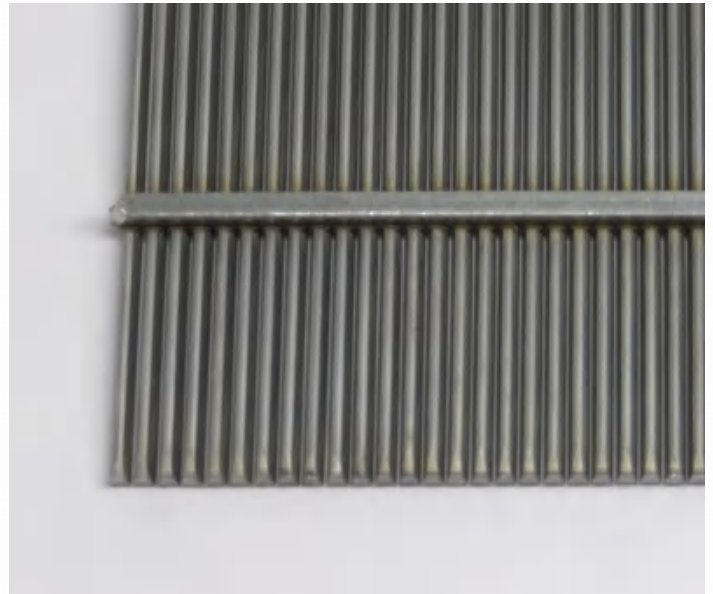
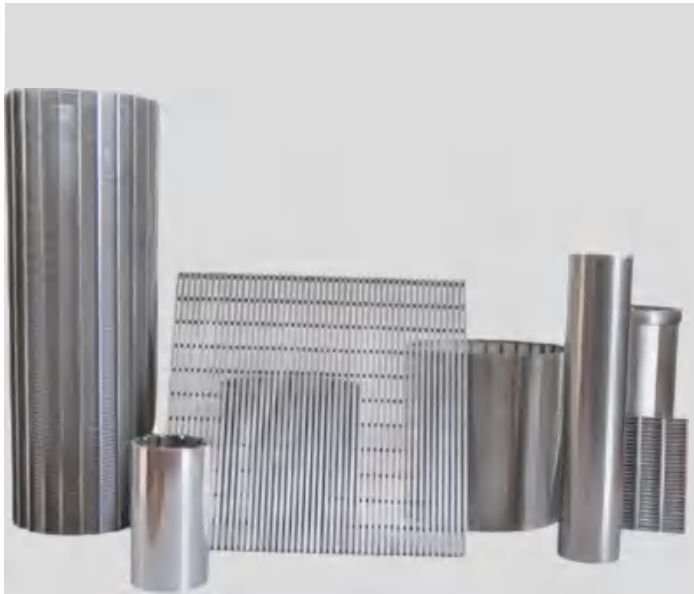
Wear and corrosion resistant.

Uniform gap and good seepage.

Easy to clean and backwash.

6. **Application:**

Wedge wire screen are widely used in the screening of petroleum, chemical, pharmaceutical, food and beverage, metallurgy, coal and other industries, filtration of water treatment. It is a kind of self-cleaning equipment filter element, which is widely used in environmental protection industry.



# Perforated Metal Sheet

## Perforated Metal Sheet

**1.Product name:**

Perforated sheet, stamping plates, perforated screen.

**2.Material:** Stainless steel.

**3.Thickness:** 0.3-18mm or Customized.

**4.Hole shape:** Round, Square, Diamond, Rectangular, Hexagonal, etc.

**5.Surface treatment:** Galvanized, polished, powder coated or other treatment.

**6.Standard Sizes:**

1000\*2000 mm/1220\*2440mm or Customized.

**7.Technique:** Perforated.

**8.Applications:**

pharmaceutical equipment, food and beverage machinery, harvesting machines, dry cleaning machines, sound elimination equipment, refrigeration equipment (central air conditioning) speakers, and filtering equipment.

