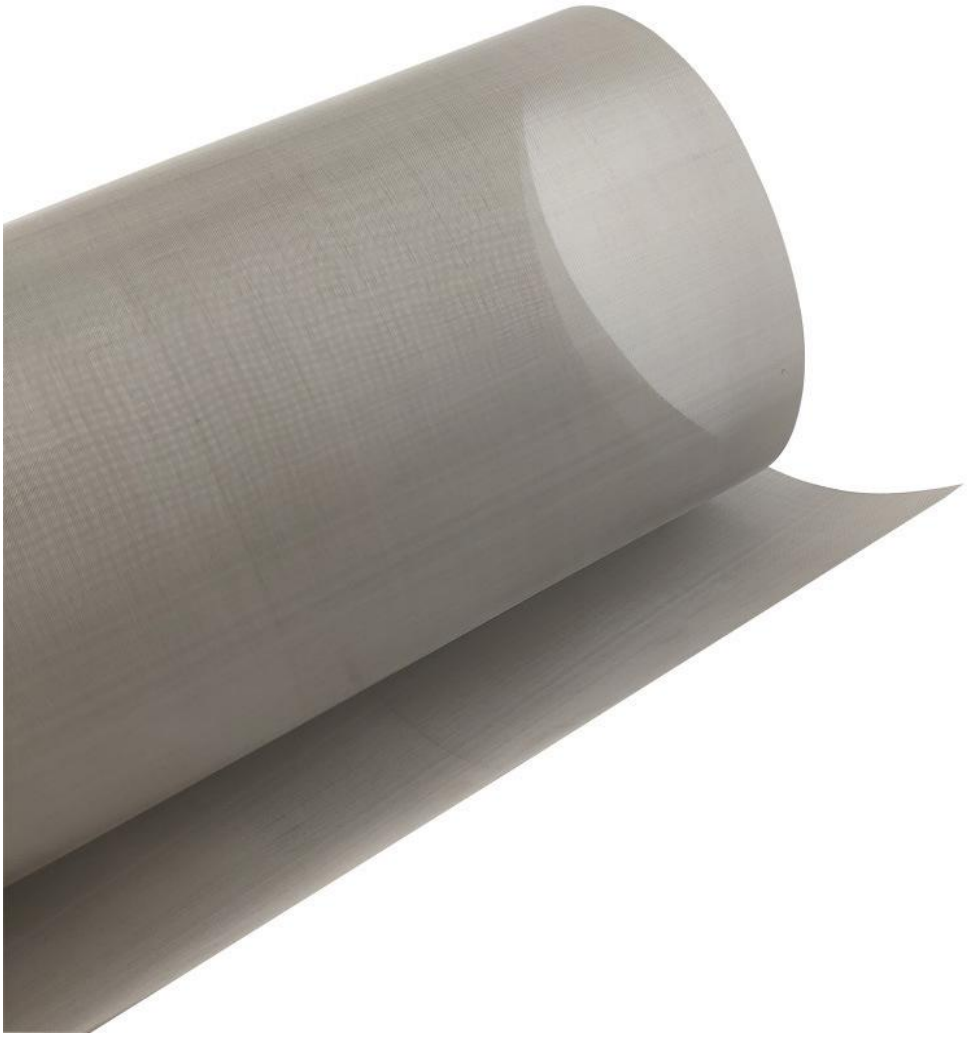


INCONEL WOVEN WIRE MESH

TENDER WIRE MESH

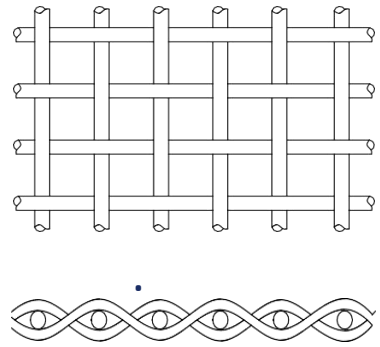
www.woven-filtermesh.com | Darth@tender-wriemesh.com

Specifications

Inconel woven mesh is a kind of woven mesh made of oxidization-corrosion-resistant alloy wires that are nickel-based and added with iron, chromium and other alloy elements. It has excellent corrosion resistance and oxidization resistance and can be used in a temperature ranging from below zero to 1093 °C without magnetism. In addition, it is widely used in petrochemical, aerospace and other industries

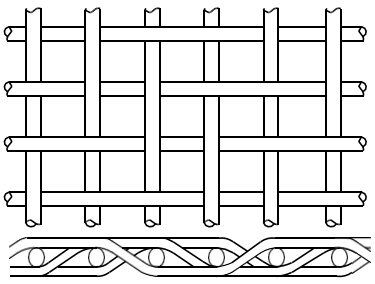
Wire diameter: 0.05–1 mm.
Mesh: 2–200 mesh.
Width: standard less than 2000 mm.
Length: 30 m rolls or cut to length, minimum 2 m.

Weave Type



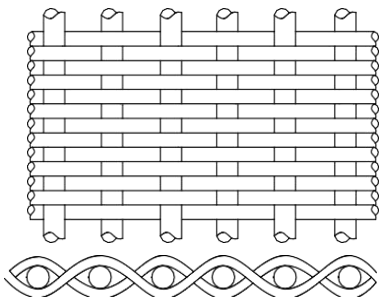
Plain weave

The simplest used type with square openings. It is woven by alternating the weft wire over and under the warp wire. It is often used for weaving coarse mesh and typically serves as the protection layer of coarse filtration and filter media.



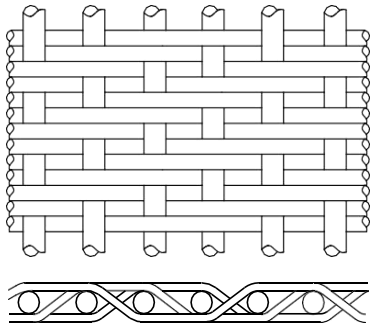
Twill weave

Each weft wire passes alternately over and under 2 warp wires, staggered on successive warps. It is generally used for weaving fine mesh and is suitable for fine filtration than plain weave.



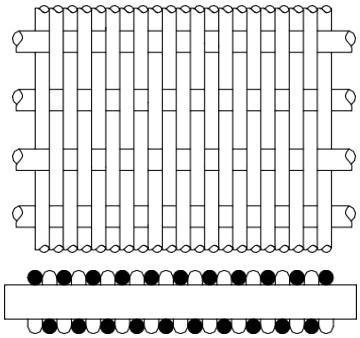
Plain Dutch weave

The diameter of the warp wire is bigger than the weft wire. During the weaving process, the finer weft wires are driven closer to form a tight filter medium. Typically, coarse mesh works as a reinforcing layer of the metal sintered mesh and the fine mesh as the filtration layer of the metal sintered mesh.



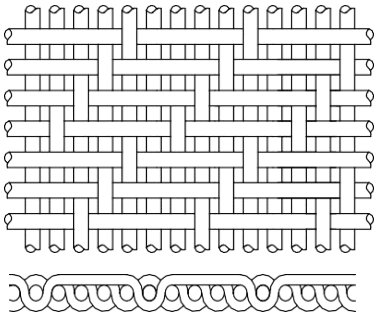
Twill dutch weave

It combines the Dutch and twill weaving process. Each warp wire passes over and under two fine weft wires. Weft wires are driven closer to each other, forming a tight woven mesh with tapered or wedge-shaped openings. In addition, it also forms smaller opening sizes. Typically, coarse mesh works as a reinforcing layer of the metal sintered mesh and the fine



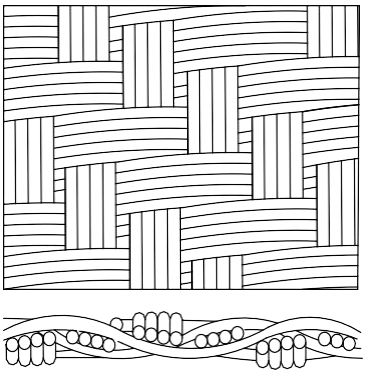
Reverse dutch weave

It is in a reverse of the plain Dutch weave wire arrangement using larger warp wires and smaller weft wires. It adopts smaller warp wires to offer a tight mesh structure for filtration and larger weft wires deliver higher strength for the woven mesh to extend its service life. Polymer continuous filter belts are generally produced with reverse Dutch weave.



Five-heddle weave

Every warp wire alternately up and down each single and four weft wires and vice versa. It provides a rectangular opening and offers high flow rates and good mechanical stability. It is widely used in drainage filtration, undercurrent filtration, and paper-making and chemical packing dehydration.



Multiplex weave

It is a relatively complex metal wire mesh or textile structure, characterized by the interweaving of multiple layers or strands of silk threads to form a more stable, durable, or functionally specific structure. Commonly used for high demand applications such as filtration, reinforcement, decoration, etc

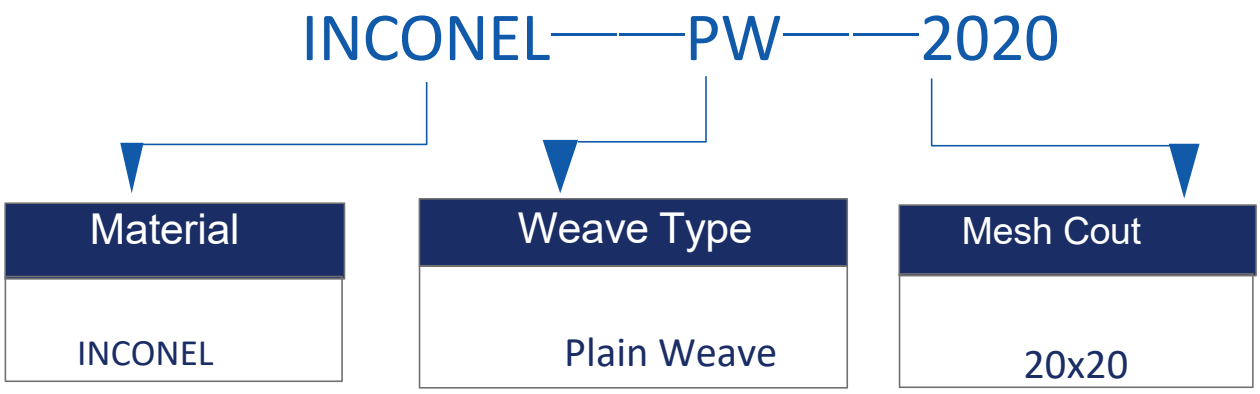
Customized Design and Production Planning

TENDER WIRE MESH is the largest manufacturer of metal braided wire mesh in China.

We Having over 20 professional PhDs in metal materials, responsible for the design department, possessing significant design and production capabilities provide customized production for all customers

Just tell us the material, weaving method, and mesh you want, and we will provide you with a quotation, such as the following

a simple code like this can be used



Besides, if you already have relevant product designs, you can tell us directly. We can directly produce for you

Or, tell me your purpose, filter media, and other information so that we can design and produce for you

Of course, as an excellent manufacturer, it is necessary to have sufficient spot inventory to meet the timely needs of customers.

We can achieve fast delivery for the goods listed in the commonly used specifications table below.

Standard specification table

Alloy Grade	Nickel Content (approx.)	Chromium Content (approx.)	Key Features	Recommended Temp. Range	Application Highlights
Inconel 600	≥72%	14–17%	Moderate corrosion resistance, oxidation resistance	-200°C to 1000°C	Chemical equipment, heat treatment
Inconel 601	≥58%	21–25%	Excellent oxidation and high-temp stability	500°C to 1200°C	High-temp furnaces, exhaust systems
Inconel 625	≥58%	20–23%	Superior corrosion resistance, fatigue resistant	-196°C to 980°C	Marine, acidic environments, flue gas systems
Inconel 718	≥50%	17–21%	High strength, heat-treatable, creep resistance	-250°C to 700°C	Aerospace turbines, pressure vessels
Inconel 750	≥70%	14–17%	Precipitation-hardened, high thermal fatigue resistance	600°C to 950°C	High-temp springs, valve components

Material	Mesh (Wires/ in.)	Wire Diameter (in.)	Width of Opening (in.)	Open Area (%)
Inconel600	4 × 4	0.1200	0.1300	27.0
	4 × 4	0.0800	0.1700	46.2
	4 × 4	0.0630	0.1870	56.0
	5 × 5	0.0400	0.1600	64.0
	6 × 6	0.0410	0.0126	57.2
	8 ×8	0.0470	0.0780	38.9
	8 × 8	0.0410	0.0840	45.2
	8 × 8	0.0300	0.0950	57.8
	8 × 8	0.0280	0.0970	60.2
	10 × 10	0.0225	0.0750	56.3
	10 × 10	0.0150	0.0850	72.3
	12 × 12	0.0410	0.0420	25.4
	12 × 12	0.0250	0.0580	48.4
	16 × 16	0.0360	0.0275	19.4
	16 × 16	0.0280	0.0350	30.5
	16 × 16	0.0250	0.0380	36.0
	16 × 16	0.0230	0.0400	39.9
	16 × 16	0.0180	0.0450	50.7
	18 × 18	0.0280	0.0280	24.7

Matetial	Mesh (Wires/in.)	Wire Diameter (in.)	Width of Opening (in.)	Open Area (%)
Inconel600	20 × 20	0.0160	0.0340	46.2
	22 × 22	0.0150	0.0310	45.0
	24 × 24	0.0140	0.0280	44.2
	24 × 24	0.0120	0.0300	50.8
	28 × 28	0.0130	0.0230	40.4
	30 × 30	0.0150	0.0180	30.1
	30 × 30	0.0100	0.0233	48.9
	35 × 35	0.0055	0.0236	68.1
	40 × 40	0.0100	0.0150	36.0
	50 × 50	0.0090	0.0110	30.2
	60 × 60	0.0075	0.0092	30.5
	80 × 80	0.0055	0.0070	31.4
	100 × 100	0.0040	0.0060	36.0
	100 × 100	0.0045	0.0055	30.2
	120 × 120	0.0038	0.0046	30.7
	120 × 120	0.0020	0.0063	57.8
	200 × 200	0.0021	0.0029	33.6
	200 × 200	0.0020	0.0030	36.0
Specification of inconel 601 Woven Mesh				
Inconel601	2 × 2	0.0720	0.4280	73.3
	5 × 5	0.0410	0.1590	63.2
	6 × 6	0.0470	0.1200	51.8
	10 × 10	0.0470	0.0530	28.1
	10 × 10	0.0225	0.0750	56.3
	10 × 10	0.0150	0.0850	72.3
	12 × 12	0.0250	0.0580	48.4
	18 × 18	0.0170	0.0390	48.3
	24 × 24	0.0140	0.0280	44.2
	30 × 30 TW	0.0170	0.0163	23.9
	30 × 30	0.0160	0.0170	26.9
	30 × 30	0.0150	0.0180	30.1
	35 × 35	0.0100	0.0190	42.4
	35 × 35	0.0140	0.0150	26.1
	40 × 40	0.0100	0.0150	36.0

Matetial	Mesh (Wires/in.)	Wire Diameter (in.)	Width of Opening (in.)	Open Area (%)
Specification of Inconel 625 Woven Mesh				
Inconel625	4 × 4	0.0470	0.2030	65.90
	6 × 6	0.0410	0.0126	57.20
	8 ×8	0.0350	0.0900	51.80
	8 × 8	0.0320	0.0930	55.40
	8 × 8	0.0240	0.1010	65.29
	20 × 20	0.0115	0.0390	60.80
	26 × 26	0.0130	0.0260	44.00
	30 × 30	0.0120	0.0210	40.80
	32 × 32	0.0140	0.0170	30.60
	32 × 32	0.0130	0.0180	34.30
	32 × 32	0.0100	0.0210	46.50
	35 × 35	0.0140	0.0150	26.10
	35 × 35	0.0135	0.0150	27.90
	35 × 35	0.0100	0.0190	42.40
	40 × 40	0.0105	0.0145	33.65
	40 × 40	0.0085	0.0170	43.60
	50 × 50	0.0090	0.0110	30.30
	60 × 60	0.0075	0.0090	30.50
	100 × 100	0.0040	0.0060	36.00
	100 × 100	0.0045	0.0060	30.30
	100 × 100	0.0040	0.0060	36.00
Specification of Inconel 718 Woven Mesh				
Inconel718	10 × 10	0.0200	0.0800	64.0
	26 × 26	0.0130	0.0260	44.0
	30 × 30	0.0080	0.0250	57.6
	45 × 45	0.0030	0.0192	74.8
Specification of Inconel X750 Woven Mesh				
InconelX750-1	38 × 36	0.0045	-	69.5
	80 × 80	0.0055	0.007	31.4

Quality Inspection

Product quality ownership is the most important concern for buyers.

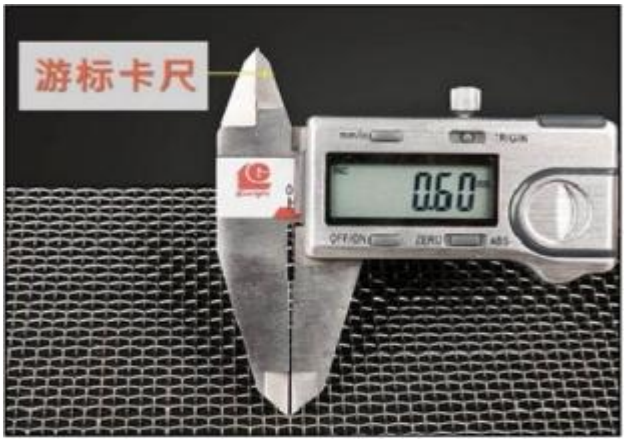
TENDER WIRE MESH, We have strict quality testing for all products produced

2D Plane Imager

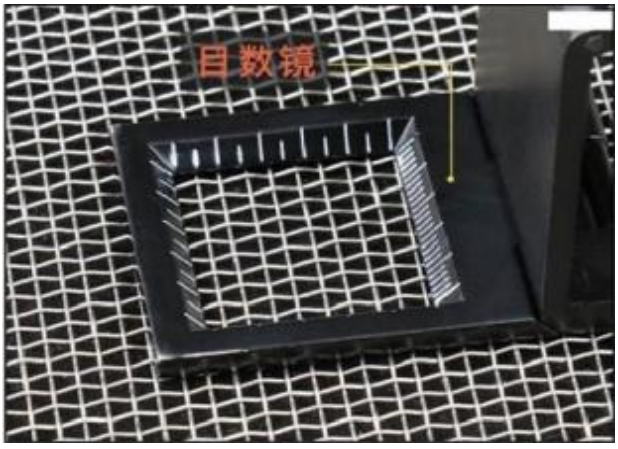
Tensile Testing Machine

Hydrochloric Acid Corrosion Test

Spectral Analyzer

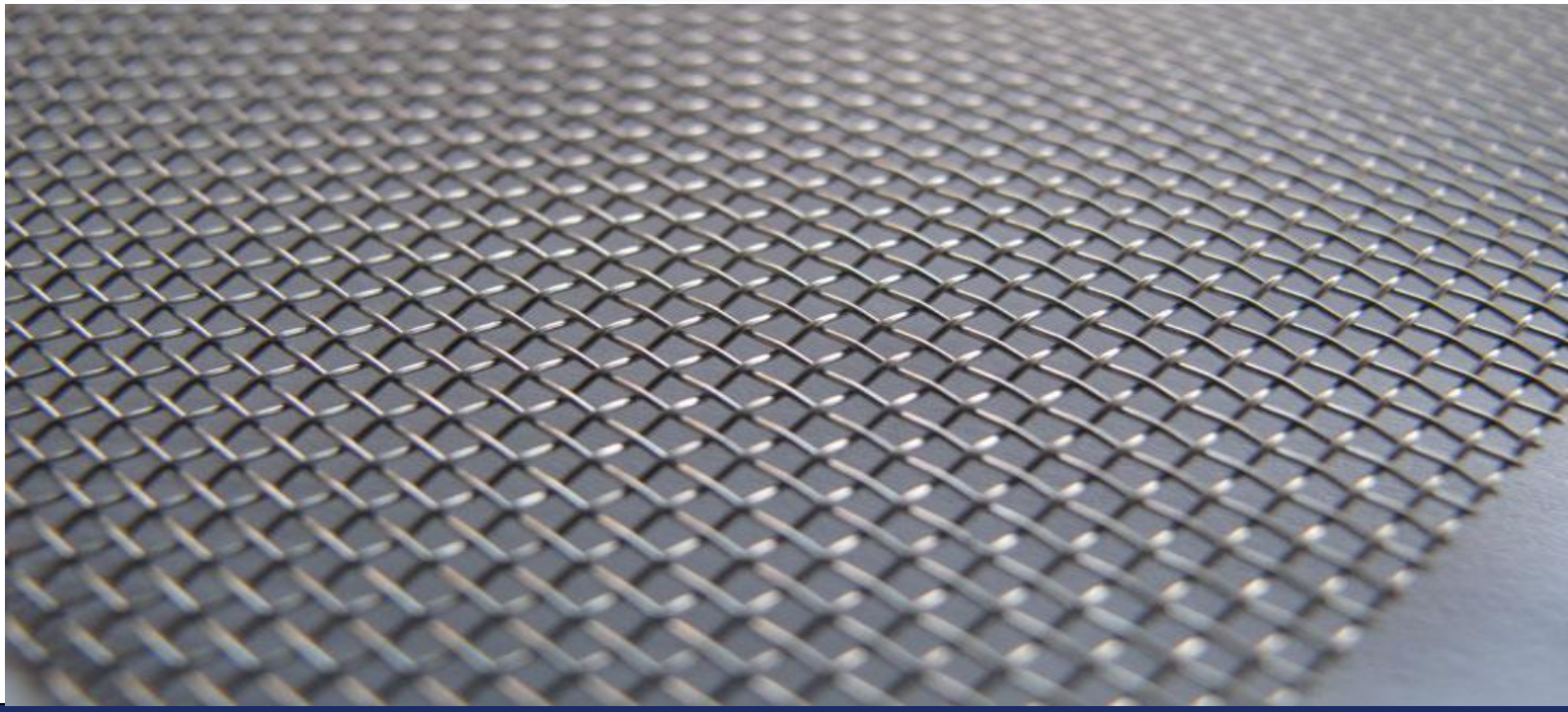


Vernier caliper



Inch mesh mirror

Contact Us



TENDER WIRE MESH, It is the largest manufacturer of metal woven wire mesh in China.

The factory covers an area of 58000 square meters, with 600 sets of various automated machines, over 200 workers, and 20 professional doctoral engineers.We serve over 3000 customers annually and generate sales of 40 million US dollars.

Search for information on other wire mesh products

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