HASTELLOY WOVEN WIRE MESH

TENDER®

TENDER WIRE MESH

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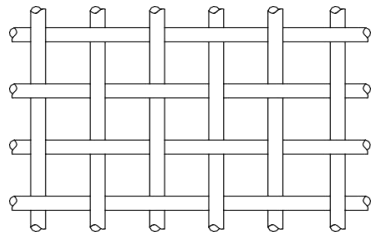
Specifications

It is an alloy of nickel, molybdenum and chromium. It is the best corrosion resistant materials among all metal materials and has great chemical stability.

It is widely used in drugs manufacturing, chlorination devices, pesticide processing, incineration scrubber apparatus, etc.

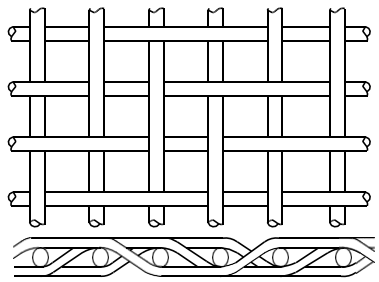
Wire diameter: 0.05–1 mm.
Mesh: 2–200 mesh.
Width: standard less than 2000 mm.
Length: 30 m rolls or cut to length, minimum 2 m.

Weave Type



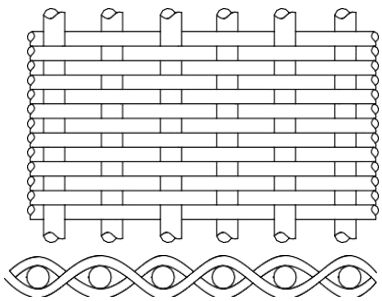
Plain weave

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.



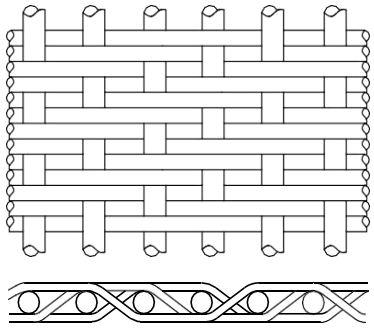
Twill weave

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.



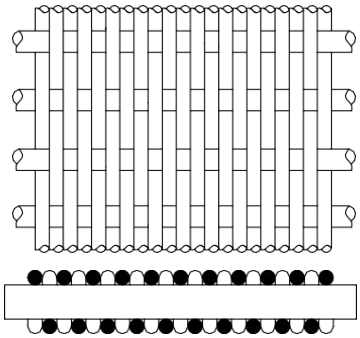
Plain Dutch weave

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.



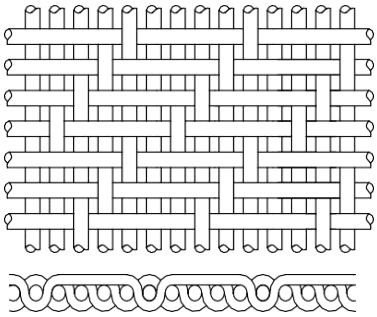
Twill dutch weave

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



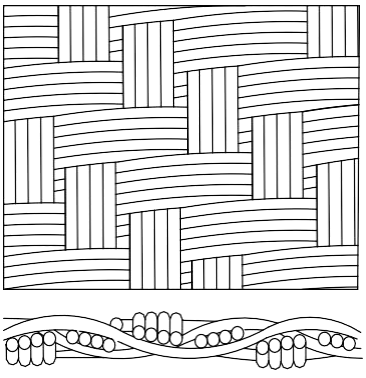
Reverse dutch weave

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

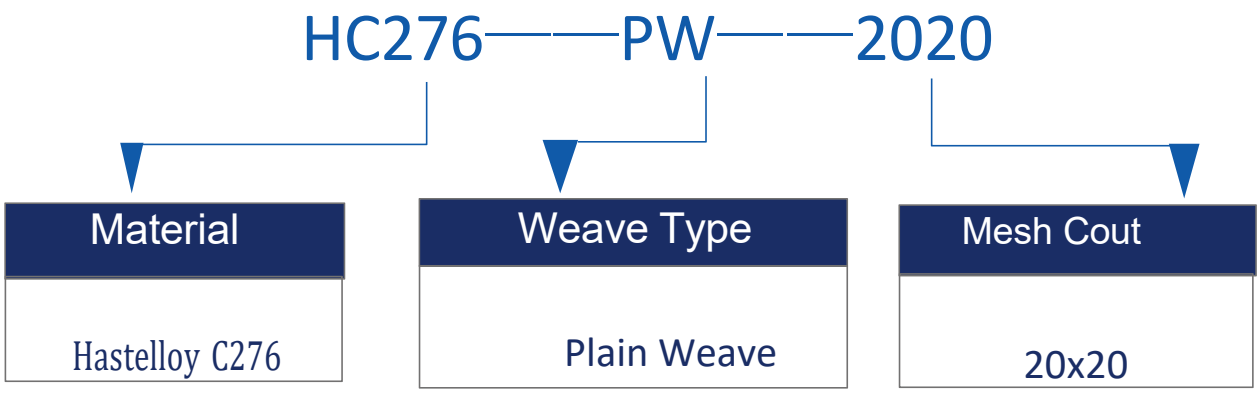
Customized Design and Production Planning

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	Main Chemical Composition	Key Features	Typical Applications
Hastelloy C-276	Ni ≥ 57%, Mo ≈ 15–17%, Cr ≈ 15–16%, Fe ≈ 4–7%, W ≈ 3–4.5%	Excellent corrosion resistance in both oxidizing and reducing environments; resists pitting and crevice corrosion	Chemical reactors, heat exchangers, scrubbers
Hastelloy C-22	Ni ≥ 56%, Cr ≈20–22.5%, Mo ≈ 13%, Fe ≈ 2–6%, W ≈ 3%	Broader corrosion resistance than C-276, especially against chlorides and mixed acids	High-end filtration systems, pharmaceutical plants, gas treatment units
Hastelloy B-2	Ni ≥ 65%, Mo ≈ 28–30%, Fe < 2%, Cr < 1%	Outstanding resistance to reducing acids such as hydrochloric, phosphoric, and acetic acids; poor in oxidizing environments	Hydrochloric acid production, reducing gas media, catalytic equipment
Hastelloy B-3	Similar to B-2, with improved microstructure	Enhanced formability and better resistance to intergranular corrosion	Same as B-2, with advantages in welding and forming
Hastelloy X	Ni ≈ 47%, Cr ≈ 20–23%, Fe ≈ 18%, Mo ≈ 8%	Excellent high-temperature strength, oxidation and carburization resistance	Aerospace engines, combustion chambers, high-temperature gas environments

Matetial	Mesh (Wires/in.)	Wire Diameter (in.)	Width of Opening (in.)	Open Area (%)
Specification of Hastelloy C276 Woven Mesh				
Hastelloy C276	6 × 6	0.0470	0.1200	51.8
	8 × 8	0.0320	0.0930	55.4
	10 × 10	0.0250	0.0750	56.3
	12 × 12	0.0230	0.0600	51.8
	12 × 12	0.0160	0.0670	64.5
	12 × 12	0.0150	0.0680	66.6
	14 × 14	0.0200	0.0510	51.0
	16 × 16	0.0180	0.0450	50.7
	16 × 16	0.0090	0.0535	73.3
	20 × 20	0.0230	0.0270	29.2
	20 × 20	0.0160	0.0340	46.2
	20 × 20	0.0090	0.0410	67.2
	24 × 24	0.0140	0.0280	44.2
	30 × 30	0.0130	0.0200	37.1
	30 × 30	0.0090	0.0240	53.1
	40 × 40	0.0100	0.0150	36.0
	40 × 40	0.0090	0.0160	41.0
	40 × 40	0.0075	0.0180	49.0
	50 × 50	0.0090	0.0110	30.3
	60 × 60	0.0072	0.0090	30.5
	60 × 60	0.0044	0.0123	54.2
	80 × 80	0.0070	0.0060	19.4
	80 × 80	0.0010	0.0085	46.2
	100 × 100	0.0010	0.0060	36.0
	120 × 120 T	0.0040	0.0043	27.0
	180 × 180	0.0020	0.0036	41.0
	200 × 200	0.0023	0.0027	48.0
	200 × 200	0.0020	0.0030	36.0

Matetial	Mesh (Wires/in.)	Wire Diameter (in.)	Width of Opening (in.)	Open Area (%)
Specification of Hastelloy B-2 Woven Mesh				
Hastelloy B-2	16 × 16	0.0140	0.0490	60.2
	30 × 30	0.0085	0.0250	55.4
	30 × 30	0.0106	0.0227	46.5
	60 × 60	0.0072	0.0090	30.5
	200 × 200	0.0020	0.0030	36.0
Specification of Hastelloy B-3 Woven Mesh				
Hastelloy B-2	16 × 16	0.0140	0.0490	60.2
	30 × 30	0.0085	0.0250	55.4
	30 × 30	0.0106	0.0227	46.5
	60 × 60	0.0072	0.0090	30.5
	200 × 200	0.0020	0.0030	36.0
Specification of Hastelloy X Woven Mesh				
Hastelloy X	10 × 10	0.0250	0.0750	56.3
	18 × 18	0.0090	0.0470	70.4
	20 × 20	0.0160	0.0340	46.2
	50 × 50	0.0030	0.0170	72.3
	60 × 60	0.0075	0.0090	30.5
	60 × 60	0.0044	0.0123	54.2
	80 × 80	0.0070	0.0060	19.4
	80 × 80	0.0010	0.0085	46.2
	100 × 100	0.0010	0.0060	36.0

Quality Inspection

Product quality ownership is the most important concern for buyers.

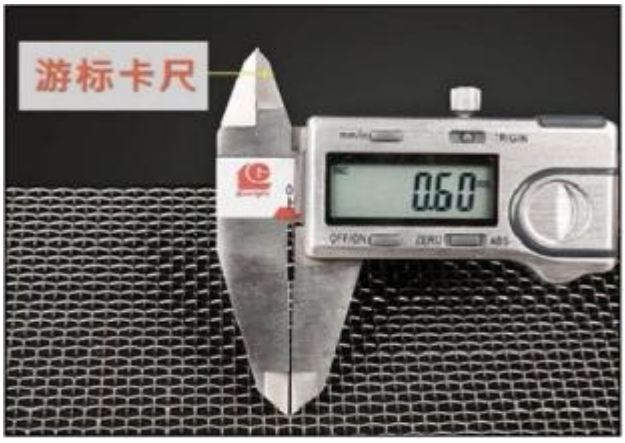
TENDER WIRE MESH, We have strict quality testing for all products produced

2D Plane Imager

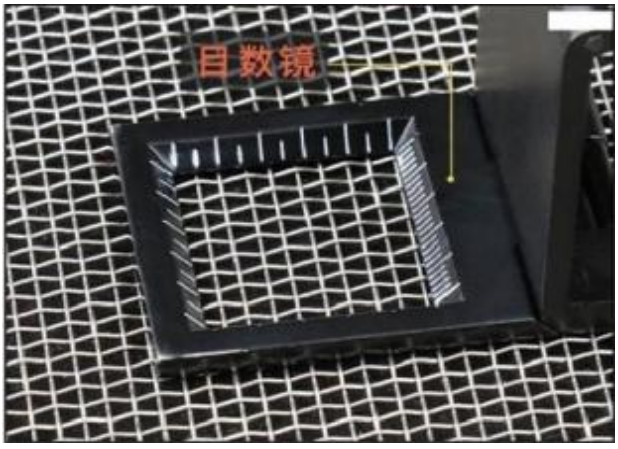
Tensile Testing Machine

Hydrochloric Acid Corrosion Test

Spectral Analyzer

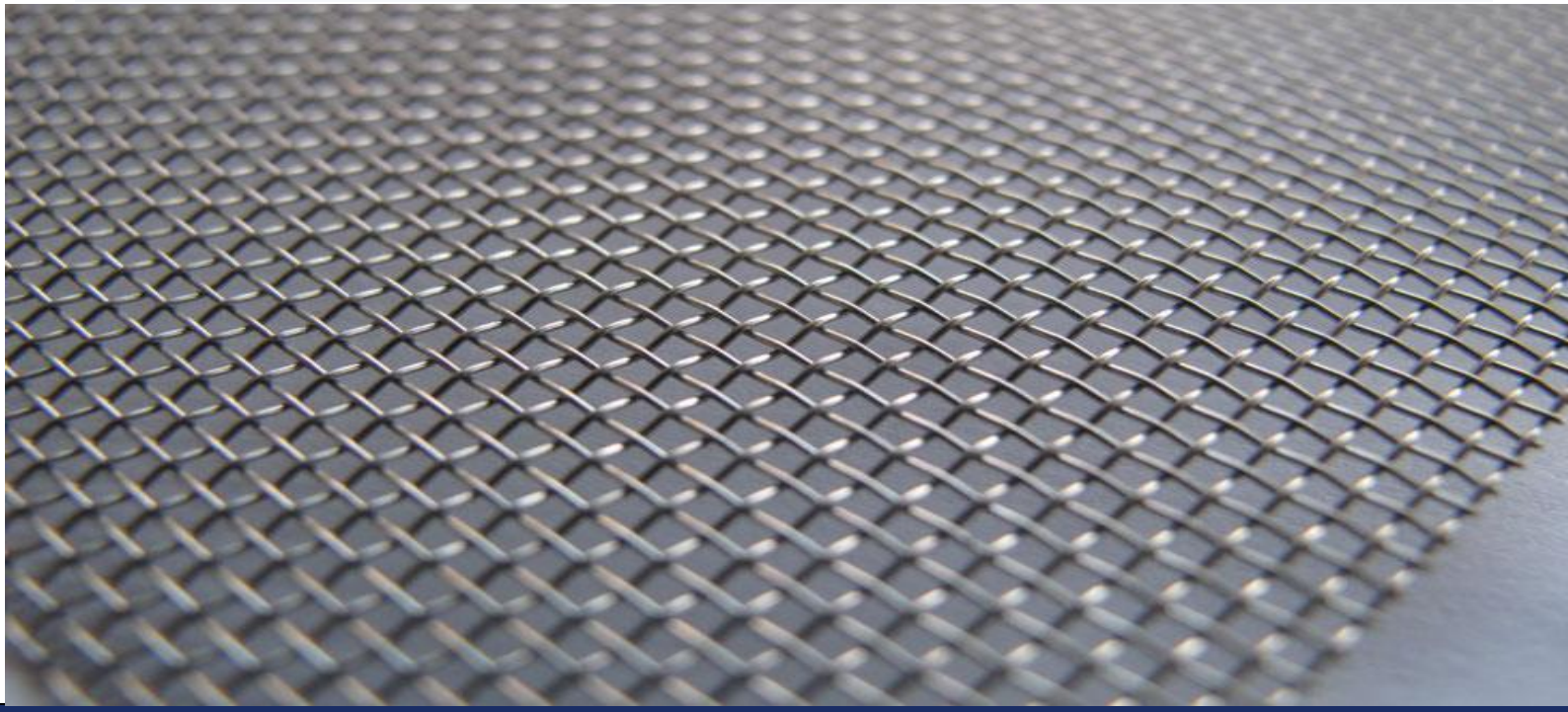


Vernier caliper



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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