



DUPLES STAINLESS STEEL WOVEN WIRE MESH



TENDER WIRE MESH

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Specifications

Duplex stainless steel woven mesh is a molybdenum-added austenitic-ferritic-iron-chromium-nickel alloy woven wire mesh. Depending on the chemical composition of the material, super duplex stainless steel is often classified into two types: UNS32750 and UNS31803.

UNS32750 Duplex stainless steel woven mesh has good resistance performance to chloride stress corrosion, fatigue corrosion, good plasticity and weldability, durability, and high strength, etc.; UNS31803 super duplex stainless steel woven mesh has good corrosion resistance performance, yield strength, weldability, and high energy absorption..

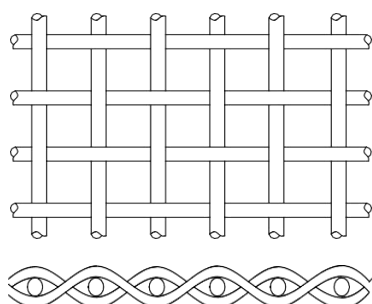
Wire diameter: 0.02–3.5 mm.

Mesh: 2–500 mesh.

Width: standard less than 2000 mm.

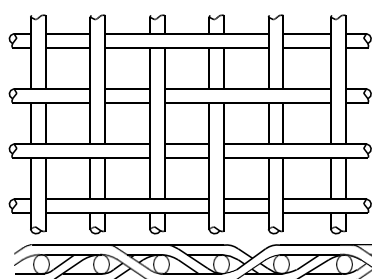
Length: 30 m rolls or cut to length, minimum 2 m.

Weave Type



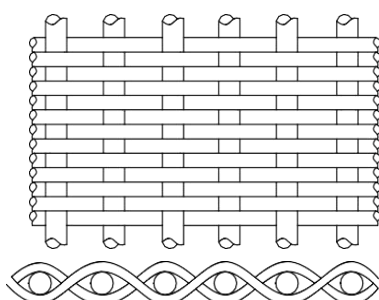
Plain weave

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.



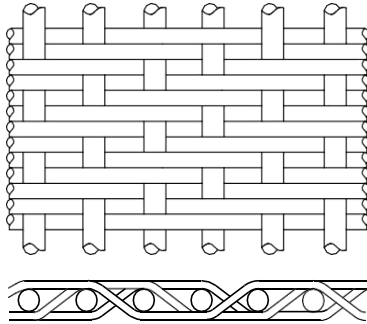
Twill weave

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.



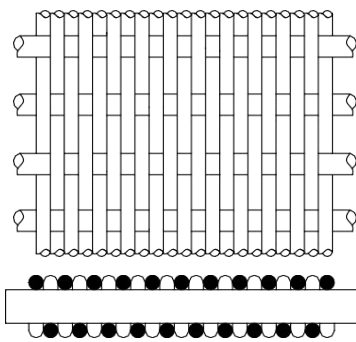
Plain Dutch weave

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.



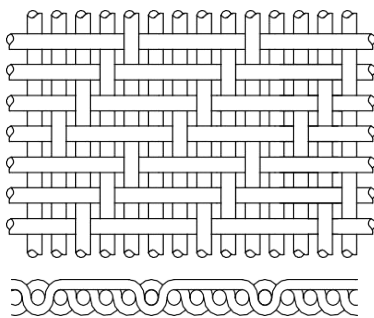
Twill dutch weave

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



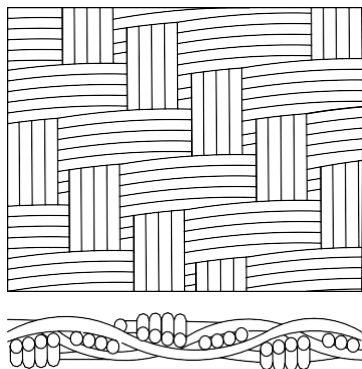
Reverse dutch weave

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

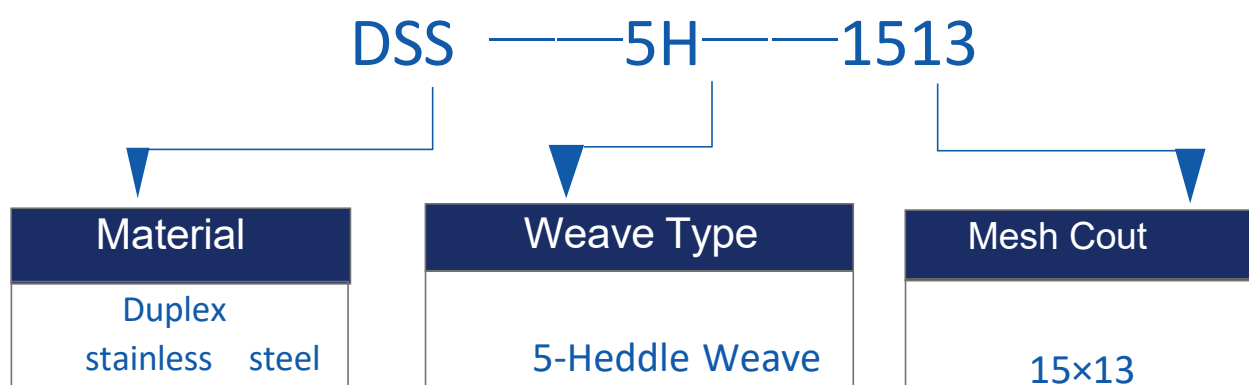
It is a relatively complex metal wire mesh or textile structure, characterized by the interweaving of multiple layers or strands of silk threads to form a more stable, durable, or functionally specific structure. Commonly used for high demand applications such as filtration, reinforcement, decoration,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

Super Duplex Stainless Steel Material Chemical Composition (%)												
—	ASTM	Content	C	Si	Mn	P	S	Cr	Ni	Cu	Mo	N
UNS32750	2507	Minimum	—	—	—	—	—	24	6.0	—	3.0	0.24
		Maximum	0.03	0.8	1.2	0.035	0.02	26	8.0	0.5	5.0	0.32
UNS31803	2205	Minimum	—	—	—	—	—	21	4.5	—	2.5	0.08
		Maximum	0.03	1.0	2.0	0.030	0.02	23	6.5	—	3.5	0.20

Item	Mesh/Inch	S.W.G	Aperture (mm)	Wire Diameter (mm)	Open Area (%)	Weight (kg/m ²)
SDSS-1	3	14.0	6.2700	2.2000	62	7.000
SDSS-2	3	18.0	7.2500	1.2190	70	2.500
SDSS-3	3.5	20.0	6.3400	0.9140	66	1.800
SDSS-4	4	16.0	4.7200	1.6300	58	5.000
SDSS-5	4	20.0	5.4500	0.9140	76	2.100
SDSS-6	4.5	22.0	4.9300	0.7110	71	1.200
SDSS-7	5	18.0	3.8600	1.2200	57	3.600
SDSS-8	5	22.0	4.3600	0.7110	76	1.300
SDSS-9	6	18.0	3.0400	1.2200	50	4.300
SDSS-10	6	22.0	3.5200	0.7110	63	1.600
SDSS-11	8	20.0	2.2600	0.9100	43	3.200
SDSS-12	8	24.0	2.5000	0.5590	67	1.500
SDSS-13	10	20.0	1.6300	0.9100	41	4.000
SDSS-14	10	26.0	2.0800	0.4600	67	1.100
SDSS-15	12	22.0	1.4100	0.7100	43	2.900
SDSS-16	12	26.0	1.7400	0.4570	68	1.400
SDSS-17	14	26.0	1.3600	0.4600	57	1.400
SDSS-18	16	28.0	1.2100	0.3760	55	1.200
SDSS-19	18	30.0	1.1000	0.3150	60	0.850
SDSS-20	20	30.0	0.9500	0.3150	58	0.950

Item	Mesh/Inch	S.W.G	Aperture (mm)	Wire Diameter (mm)	Open Area (%)	Weight (kg/m ²)
SDSS-21	22	32.0	0.8800	0.2740	57	0.800
SDSS-22	24	32.0	0.7800	0.2740	55	0.850
SDSS-23	26	32.0	0.7400	0.2740	51	0.700
SDSS-24	28	34.0	0.6700	0.2340	50	0.750
SDSS-25	30	34.0	0.6100	0.2340	48	0.800
SDSS-26	32	34.0	0.5600	0.2340	50	0.840
SDSS-27	36	34.0	0.4700	0.2340	45	0.950
SDSS-28	38	36.0	0.4800	0.1930	46	0.700
SDSS-29	40	36.0	0.4400	0.1930	50	0.800
SDSS-30	50	38.0	0.3600	0.1520	46	0.580
SDSS-31	60	40.0	0.3000	0.1220	50	0.450
SDSS-32	80	40.0	0.1980	0.1200	44	0.580
SDSS-33	100	42.0	0.1540	0.1000	37	0.500
SDSS-34	120	44.0	0.1300	0.0810	40	0.390
SDSS-35	130	45.0	0.1250	0.0700	41	0.325
SDSS-36	140	45.0	0.1110	0.0700	38	0.350
SDSS-37	150	46.5	0.1150	0.0550	48	0.206
SDSS-38	160	46.0	0.0970	0.6100	32	0.300
SDSS-39	170	47.0	0.0900	0.0500	41	0.213
SDSS-40	180	47.0	0.0900	0.0510	41	0.240
SDSS-41	190	47.0	0.0830	0.0510	40	0.240
SDSS-42	200	48.0	0.0860	0.0410	46	0.170
SDSS-43	220	48.0	0.0740	0.0410	41	0.190
SDSS-44	240	48.0	0.0650	0.0410	39	0.200
SDSS-45	250	48.0	0.0610	0.0410	38	0.220
SDSS-46	260	48.0	0.0570	0.0410	34	0.220
SDSS-47	280	49.0	0.0600	0.0310	31	0.140
SDSS-48	300	49.0	0.0540	0.0310	40	0.150
SDSS-49	320	49.0	0.0480	0.0310	39	0.160
SDSS-50	350	49.0	0.0420	0.0310	36	0.160
SDSS-51	400	50.0	0.0385	0.0250	39	0.013
SDSS-52	450	50.0	0.0314	0.0250	37	0.140
SDSS-53	500	50.0	0.0258	0.0250	35	0.156

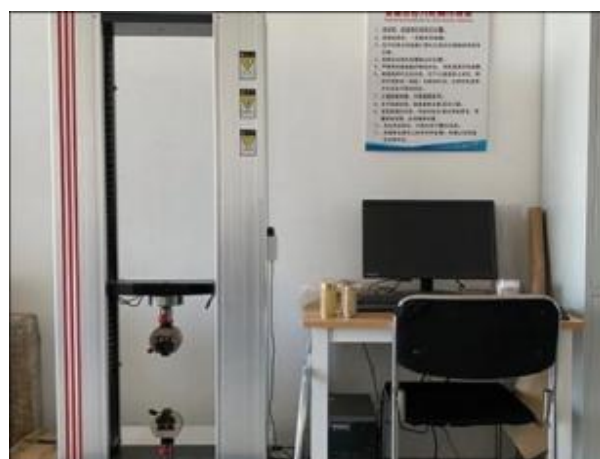
Quality Inspection

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



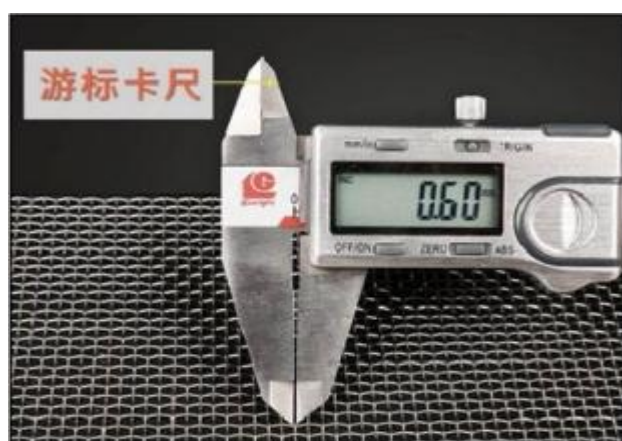
Tensile Testing Machine



Hydrochloric Acid Corrosion Test



Spectral Analyzer

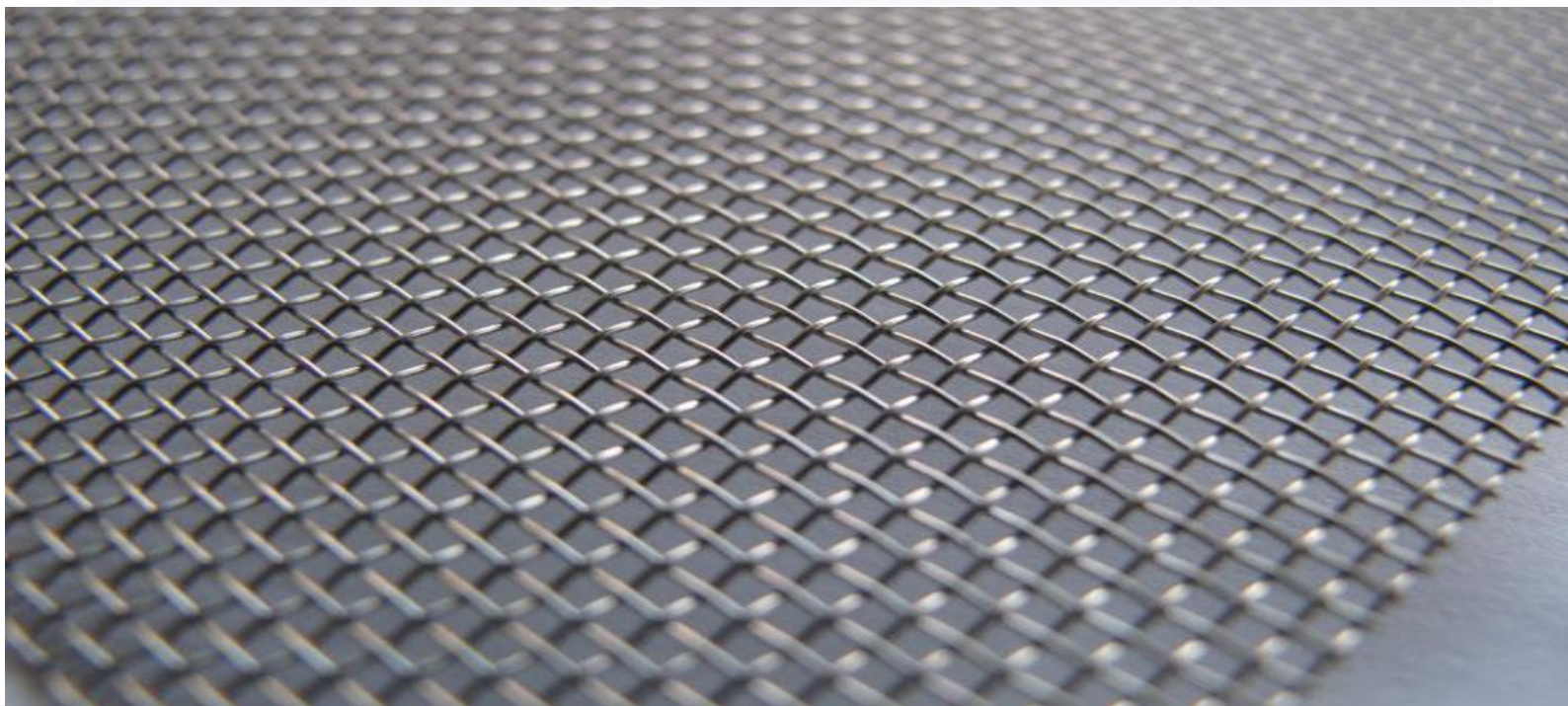


Vernier caliper



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.

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www.tender-wiremesh.com

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