



RED COPPER WOVEN WIRE MESH



TENDER WIRE MESH

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Specifications

Red copper woven mesh (also known as red copper wire mesh or purple copper mesh) is a metal wire mesh made by weaving red copper wire. Red copper is a pure copper material with extremely high copper content (usually $\geq 99.9\%$), which has excellent conductivity, thermal conductivity, corrosion resistance, and ductility

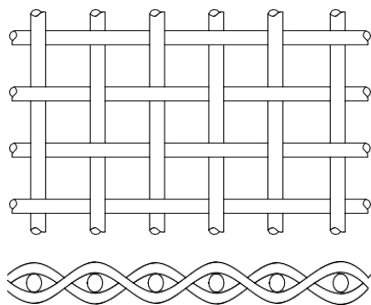
Wire diameter: 0.02–3.5 mm.

Mesh: 2–500 mesh.

Width: standard less than 2000 mm.

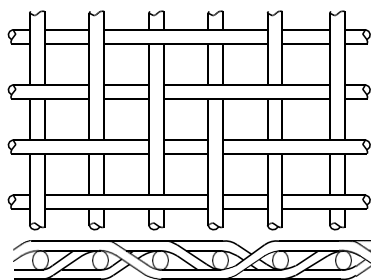
Length: 30 m rolls or cut to length, minimum 2 m.

Weave Type



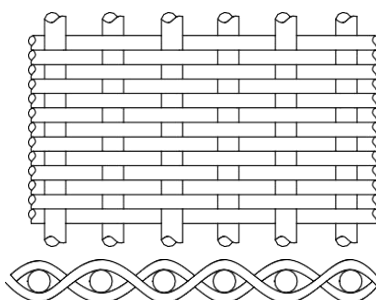
Plain weave

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.



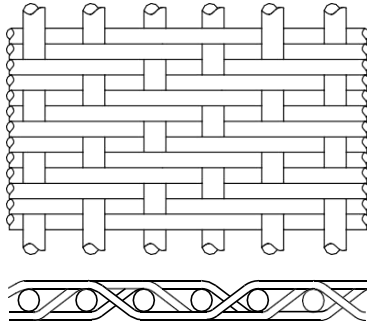
Twill weave

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.



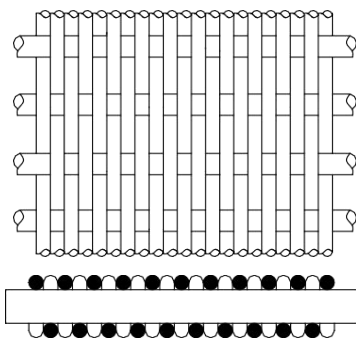
Plain Dutch weave

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.



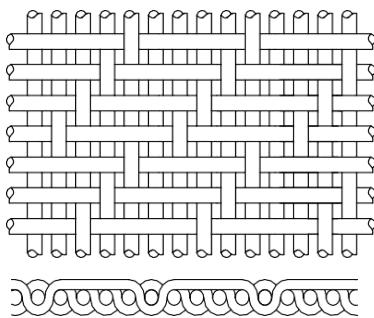
Twill dutch weave

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



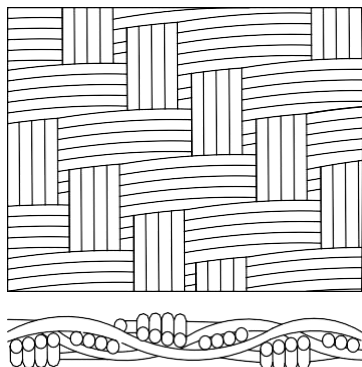
Reverse dutch weave

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

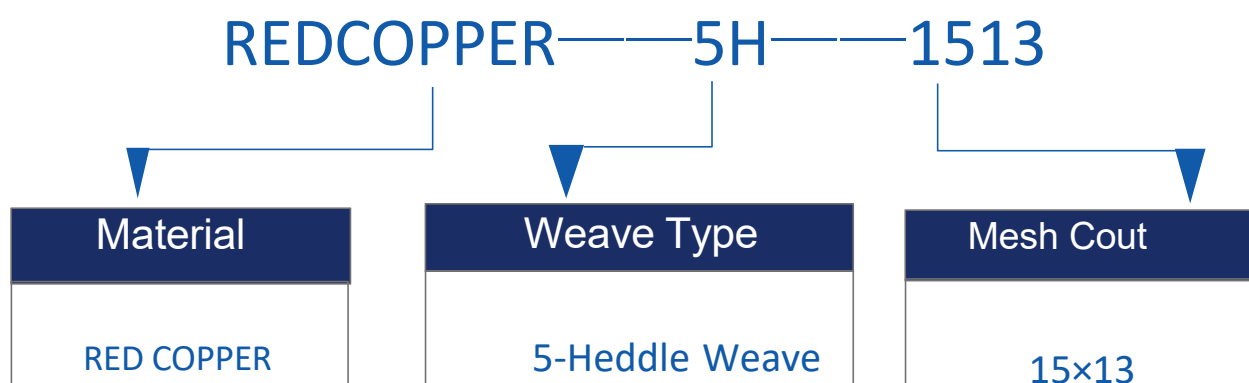
It is a relatively complex metal wire mesh or textile structure, characterized by the interweaving of multiple layers or strands of silk threads to form a more stable, durable, or functionally specific structure. Commonly used for high demand applications such as filtration, reinforcement, decoration,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

Material	Mesh/Inch	Wire Diameter		Aperture		Open Area
		inch	mm	inch	mm	%
Copper	1 × 1	0.0800	2.0300	0.9200	23.370	85
	1 × 1	0.1180	3.0000	0.8820	22.400	78
	2 × 2	0.0630	1.6000	0.4370	11.100	76
	2 × 2	0.0590	1.5000	0.4410	11.200	78
	3 × 3	0.0540	1.3700	0.2790	7.090	70
	3 × 3	0.0470	1.2000	0.2860	7.270	74
	4 × 4	0.0390	1.0000	0.2110	5.350	71
	4 × 4	0.0470	1.1900	0.2030	5.160	66
	4 × 4	0.0630	1.6000	0.1870	4.750	56
	5 × 5	0.0390	1.0000	0.1610	4.080	65
	5 × 5	0.0410	1.0400	0.1590	4.040	63
	6 × 6	0.0350	0.9000	0.1310	3.330	62
	6 × 6	0.0350	0.8900	0.1320	3.350	62
	7 × 7	0.0310	0.8000	0.1110	2.830	61
	8 × 8	0.0280	0.7100	0.0970	2.460	60
	10 × 10	0.0250	0.6400	0.0750	1.910	56
	10 × 10	0.0240	0.6000	0.0760	1.940	58
	12 × 12	0.0230	0.5840	0.0600	1.520	52
	12 × 12	0.0200	0.5080	0.0630	1.600	58
	12 × 12	0.0220	0.5500	0.0620	1.570	55
	14 × 14	0.0230	0.5840	0.0480	1.220	46
	14 × 14	0.0200	0.5080	0.0510	1.300	52

Material	Mesh/Inch	Wire Diameter		Aperture		Open Area %
		inch	mm	inch	mm	
Copper	16 × 16	0.0180	0.4570	0.0445	1.130	51
	16 × 16	0.0200	0.5000	0.0430	1.090	47
	18 × 18	0.0170	0.4320	0.0386	0.980	48
	18 × 18	0.0200	0.5000	0.0360	0.910	42
	20 × 20	0.0200	0.5080	0.0300	0.760	36
	20 × 20	0.0160	0.4060	0.0340	0.860	46
	20 × 20	0.0160	0.4000	0.0340	0.870	47
	20 × 20	0.0180	0.4500	0.0320	0.820	42
	24 × 24	0.0140	0.3560	0.0277	0.700	44
	24 × 24	0.0140	0.3500	0.0280	0.710	45
	30 × 30	0.0130	0.3300	0.0203	0.520	37
	30 × 30	0.0120	0.3050	0.0213	0.540	41
	30 × 30	0.0090	0.2290	0.0243	0.620	53
	30 × 30	0.0100	0.2500	0.0230	0.600	50
	40 × 40	0.0100	0.2540	0.0150	0.380	36
	40 × 40	0.0080	0.2000	0.0170	0.440	47
	50 × 50	0.0090	0.2290	0.0110	0.280	30
	50 × 50	0.0080	0.2030	0.0120	0.310	37
	50 × 50	0.0070	0.1800	0.0130	0.330	42
	60 × 60	0.0075	0.1910	0.0092	0.230	30
	60 × 60	0.0070	0.1780	0.0097	0.250	34
	60 × 60	0.0060	0.1600	0.0100	0.260	38
	60 × 60	0.0070	0.1900	0.0090	0.230	30
	70 × 70	0.0065	0.1650	0.0078	0.200	30
	70 × 70	0.0050	0.1200	0.0100	0.240	44
	80 × 80	0.0065	0.1650	0.0060	0.150	23
	80 × 80	0.0050	0.1200	0.0080	0.200	39
	80 × 80	0.0050	0.1300	0.0070	0.190	35
	90 × 90	0.0050	0.1270	0.0061	0.160	31
	100 × 100	0.0045	0.1140	0.0055	0.140	30
	100 × 100	0.0040	0.1020	0.0060	0.150	35
	100 × 100	0.0035	0.0890	0.0065	0.170	43
	100 × 100	0.0040	0.1000	0.0080	0.150	36
	100 × 100	0.0040	0.1100	0.0060	0.140	31
	110 × 110	0.0040	0.1020	0.0051	0.130	31
	120 × 120	0.0037	0.0940	0.0064	0.120	31
	120 × 120	0.0020	0.0600	0.0070	0.180	56
	120 × 120	0.0040	0.0900	0.0050	0.120	33
	120 × 120	0.0020	0.0580	0.0080	0.150	52
	120 × 120	0.0030	0.0800	0.0050	0.130	38

Material	Mesh/Inch	Wire Diameter		Aperture		Open Area %
		inch	mm	inch	mm	
Copper	140 × 140	0.0030	0.0700	0.0040	0.110	37
	145 × 145	0.0020	0.0450	0.0050	0.130	55
	150 × 150	0.0026	0.0660	0.0041	0.100	37
	150 × 150	0.0020	0.0600	0.0040	0.110	42
	150 × 150	0.0020	0.0500	0.0050	0.120	50
	160 × 160	0.0025	0.0640	0.0038	0.100	36
	160 × 160	0.0020	0.0500	0.0040	0.110	47
	160 × 160	0.0020	0.0400	0.0050	0.120	56
	160 × 160	0.0010	0.0350	0.0050	0.120	60
	165 × 165	0.0020	0.0500	0.0040	0.100	44
	180 × 180	0.0023	0.0580	0.0033	0.080	35
	180 × 180	0.0020	0.0500	0.0040	0.090	41
	180 × 180	0.0020	0.0400	0.0040	0.100	51
	200 × 200	0.0021	0.0530	0.0029	0.070	34
	200 × 200	0.0020	0.0530	0.0030	0.070	32
	200 × 200	0.0020	0.0500	0.0030	0.080	38
	200 × 200	0.0020	0.0400	0.0030	0.090	48
	220 × 220	0.0020	0.0500	0.0030	0.070	34
	230 × 230	0.0010	0.0350	0.0030	0.080	48
	230 × 230	0.0010	0.0300	0.0030	0.080	53
	250 × 250	0.0016	0.0410	0.0024	0.060	36
	250 × 250	0.0020	0.0400	0.0020	0.060	36
	250 × 250	0.0010	0.0350	0.0030	0.070	44
	250 × 250	0.0010	0.0300	0.0030	0.070	49
	270 × 270	0.0016	0.0410	0.0021	0.050	32
	270 × 270	0.0010	0.0350	0.0020	0.060	40
	270 × 270	0.0010	0.0300	0.0030	0.060	44
	280 × 280	0.0010	0.0350	0.0020	0.060	40
	300 × 300	0.0051	0.0380	0.0018	0.050	30
	300 × 300	0.0010	0.0300	0.0020	0.050	39
	315 × 315	0.0350	0.0010	0.0456	0.002	32
	325 × 325	0.0014	0.0360	0.0017	0.043	30
	325 × 325	0.0350	0.0010	0.0432	0.002	30
	350 × 350	0.0350	0.0010	0.0376	0.002	27
	350 × 350	0.0300	0.0010	0.0426	0.002	34
	363 × 363	0.0300	0.0010	0.0400	0.002	33
	400 × 400	0.0010	0.0250	0.0015	0.370	88
	400 × 400	0.0250	0.0010	0.0385	0.002	36
	400 × 400	0.0280	0.0010	0.0355	0.001	31
	400 × 400	0.0300	0.0010	0.0335	0.001	27

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



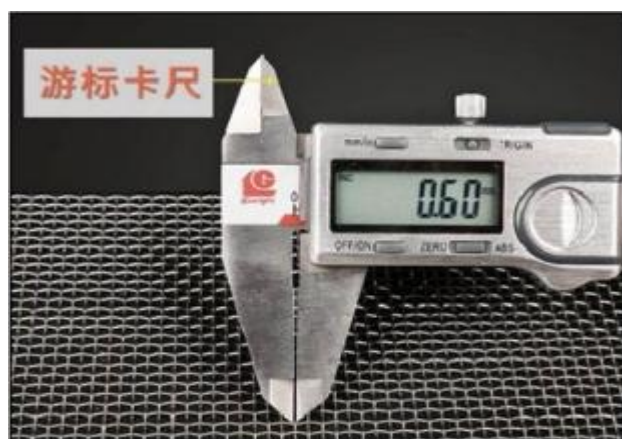
Tensile Testing Machine



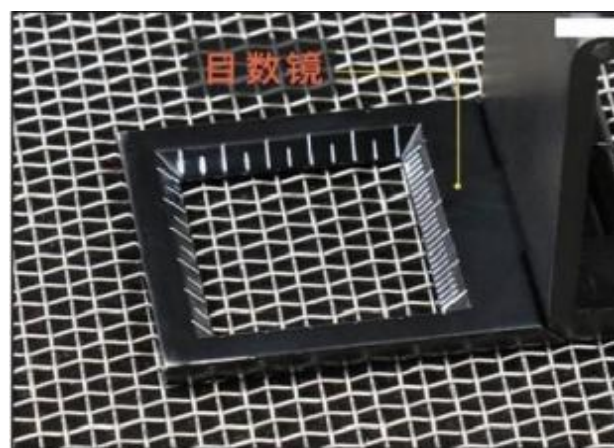
Hydrochloric Acid Corrosion Test



Spectral Analyzer

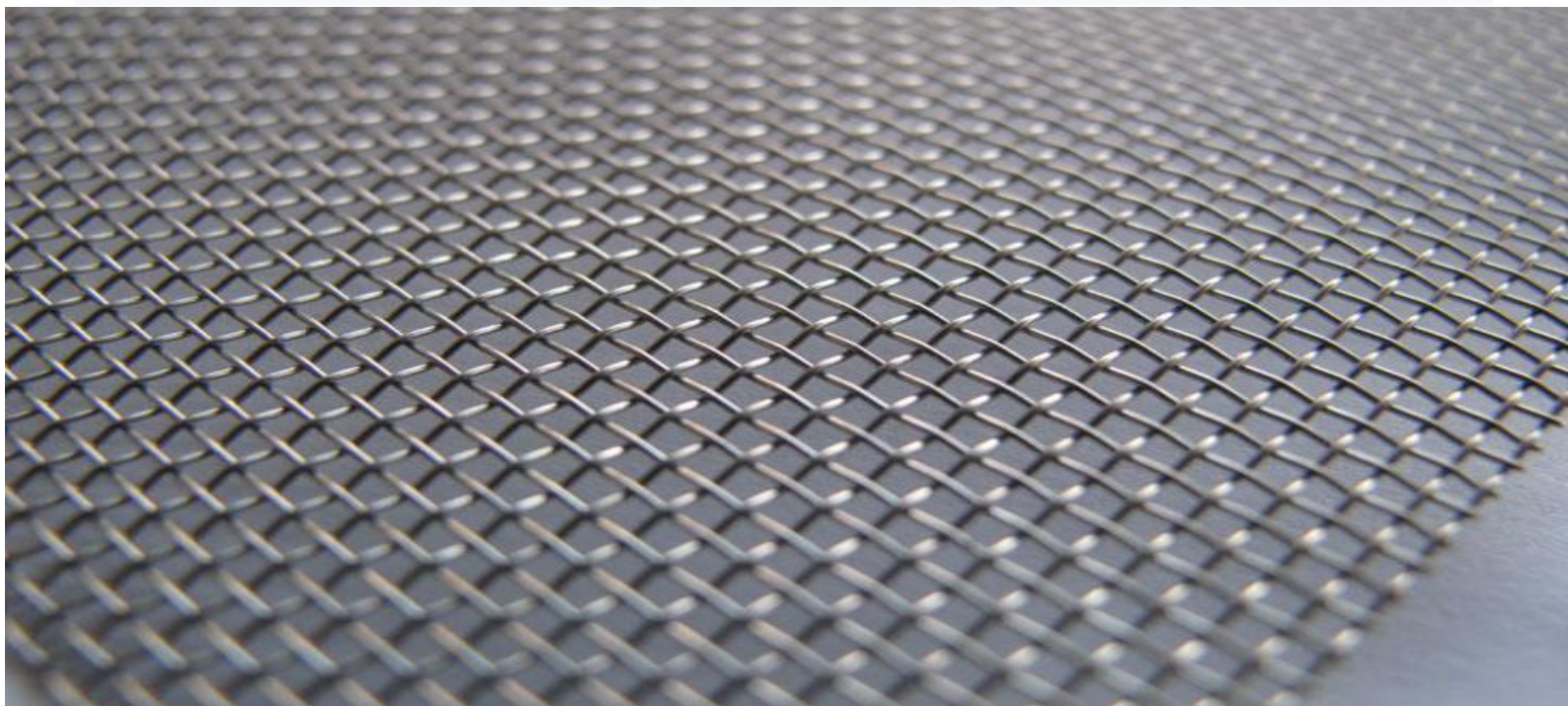


Vernier caliper



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

www.tender-wiremesh.com

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