

BRILLIANT METALS CO., LTD

Professional Metal Mesh Manufacturer & Supplier in China

BRILLIANT METALS CO., LIMITED

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BRILLIANT METALS CO., LTD

Professional Metal Mesh and Wire Mesh Manufacturer & Supplier in China



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Brilliant Metals
Co., Ltd



COMPANY PROFILE

Brilliant Metals Co., Ltd is a professional metal mesh manufacturer and supplier in China, specializing in the production and supply of various metal mesh products. The production department is located in Anping County, Hebei Province, and the international sales department is located in Shijiazhuang City. With 10 years of industry experience and a commitment to excellence, Brilliant Metals has established itself as a trusted name in the global market, catering to diverse industries and applications.

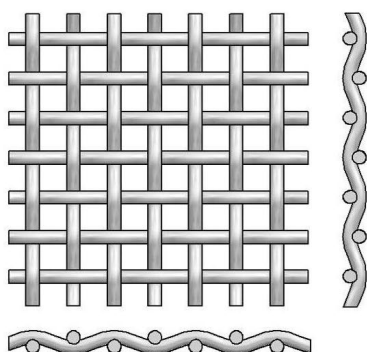
Our comprehensive product portfolio includes a wide range of metal mesh products designed to meet the needs of various applications. Our primary product lines feature woven wire mesh, welded wire mesh, perforated metal, expanded metal, metal mesh filters, wire mesh filter discs, filter cartridges/cylinders, sintered metal filters, and architectural mesh. Each product series is crafted with precision and attention to detail, ensuring superior performance and durability.

At Brilliant Metals, we understand the importance of material selection in achieving optimal results. We offer our metal mesh products in a variety of materials, including galvanized steel, stainless steel, aluminum, copper, brass, bronze, and nickel. This diverse material selection allows us to provide customized solutions that meet the specific requirements of our clients, whether it be for industrial, commercial, or decorative purposes.

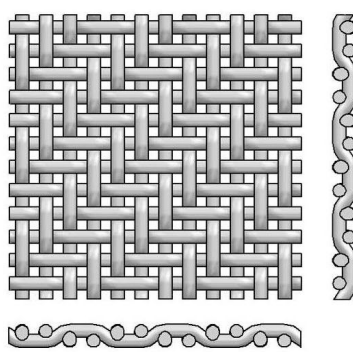
Brilliant Metals is dedicated to continuous innovation and quality improvement. Our state-of-the-art manufacturing facilities, coupled with a highly skilled workforce, ensure that every product we deliver meets the highest standards of quality and reliability. We pride ourselves on our customer-centric approach, providing tailored solutions and exceptional service to meet the unique needs of each client.

Choose Brilliant Metals Co., Ltd. for your metal mesh needs and experience the perfect blend of quality, versatility, and innovation.

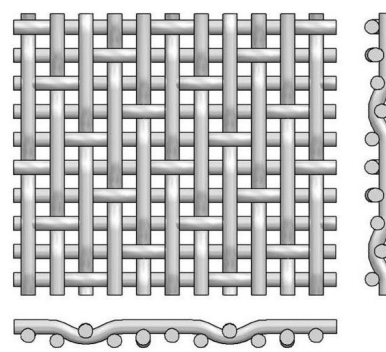
Stainless Steel Woven Wire Mesh



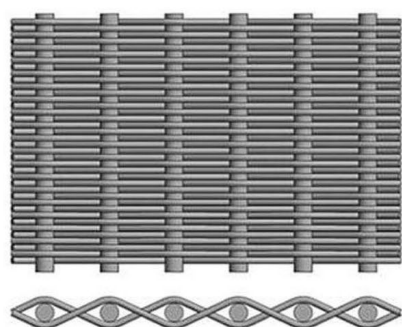
平织 (Plain Weave)



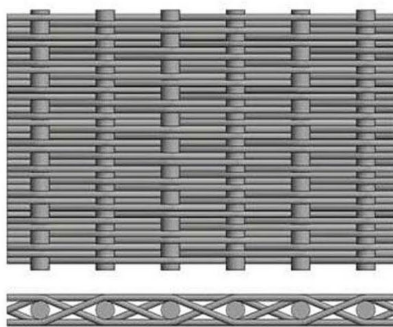
斜织 (Twill Weave)



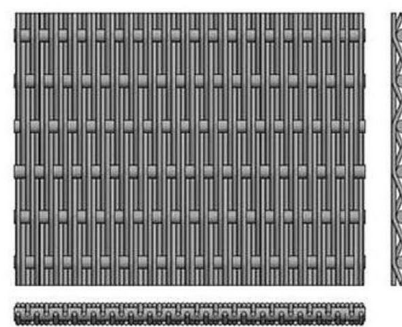
五综斜纹编织 (Five-heddle Weave)



平纹席型编织 (Plain Dutch Weave)



斜纹席型编织 (Twill Dutch Weave)



反向斜纹席型编织 (Reverse Twill Dutch Weave)

Weave Styles

1.1 Plain Weave Wire Mesh

Plain weaving refers to the weaving method in which one warp thread on one weft thread and one weft thread on one warp thread. It is the most common and simplest weaving method.

This woven fabrics is the most economical and is typically used in screening and grading, particle separation, filtration, safety and security applications.

1.2 Twill Weave Wire Mesh

Twill weaving is the interlacing of a single weft thread and a double warp thread, resulting in twill threads that appear to be parallel on the surface

Twill weave is used for the same purpose as plain weave, both for filtering and sieving.

1.3 Dutch Weave Wire Mesh

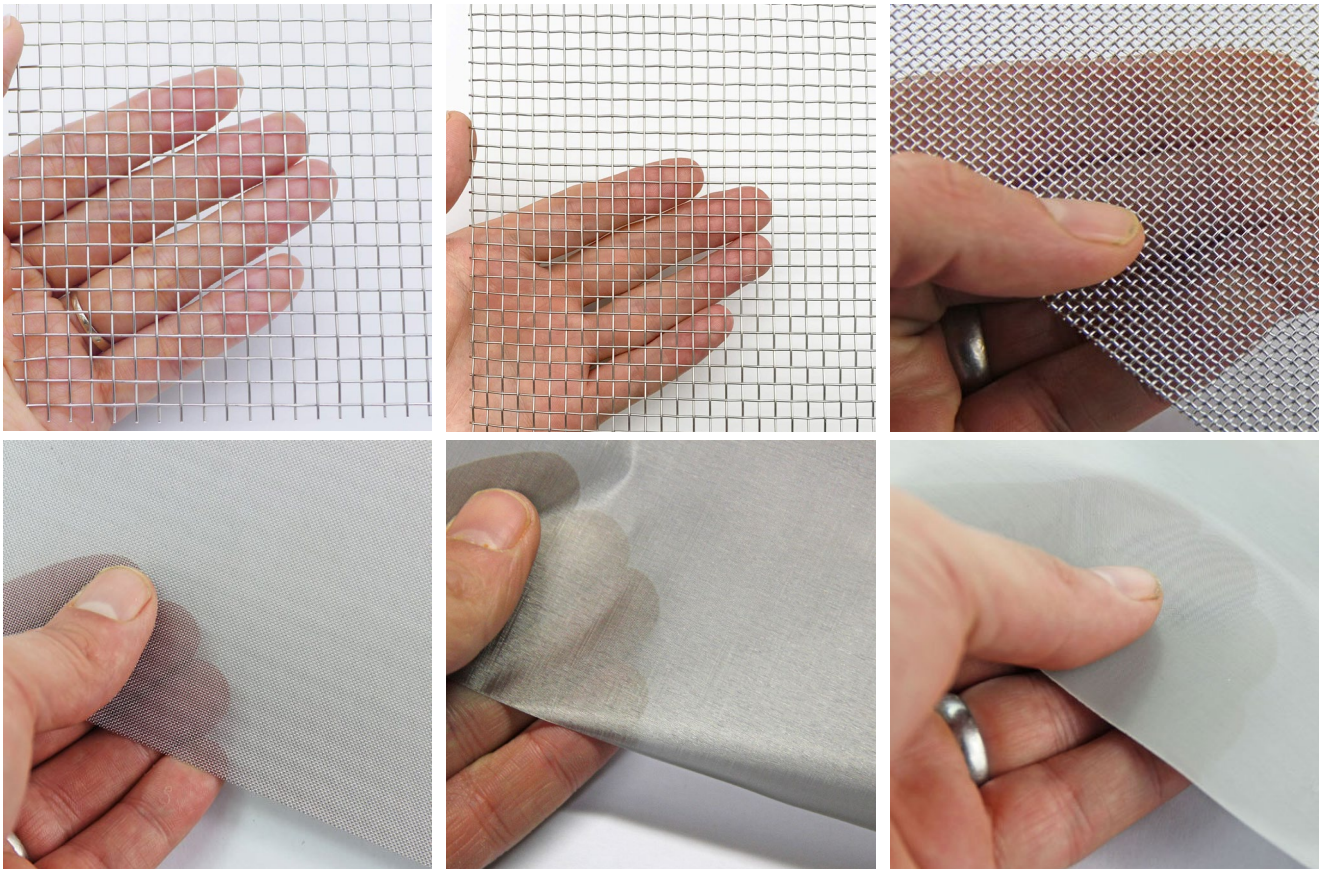
Dutch weave in which the warp and weft threads are of different diameters. Dutch weave is divided into plain Dutch weave, twill Dutch weave and reverse Dutch weave. It cannot calculate the size of the opening in the usual way.

Prior to plain weave and twill weave, Dutch weave has a high filtration level and high pressure load resistance.

1.4 Five-heddle Weave

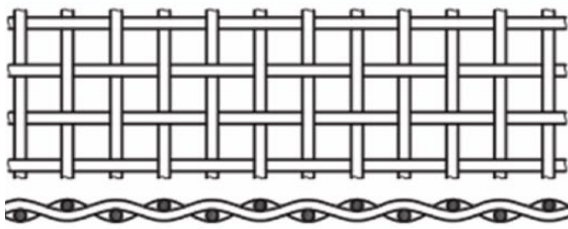
Each warp thread crosses over and under every 4 weft threads and vice versa.

Coarse and Fine Mesh



Stainless Steel Chemical Composition, %										
Grade	C, ≤	Mn, ≤	P, ≤	S, ≤	Si, ≤	Cr	Ni	Mo	N, ≤	Other Elements
304	0.08	2.00	0.045	0.03	1.00	18.0-20.0	8.0-11.0	—	—	—
304L	0.03	2.00	0.045	0.03	1.00	18.0-20.0	8.0-12.0	—	—	—
316	0.08	2.00	0.045	0.03	1.00	16.0-18.0	10.0-14.0	2.00-3.00	—	—
316L	0.03	2.00	0.045	0.03	1.00	16.0-18.0	10.0-14.0	2.00-3.00	—	—
309 (S)	0.20 (0.08)	2.00	0.045	0.03	1.00	22.0-24.0	12.0-15.0	—	—	—
310 (S)	0.25 (0.08)	2.00	0.045	0.03	1.5	24.0-26.0	19.0-22.0	—	—	—
316Ti	0.08	2.00	0.045	0.03	1.00	16.0-18.0	10.0-14.0	2.00-3.00	0.1	≥ Ti 5 × (C + N), ≤ 0.70
321	0.08	2.00	0.045	0.03	1.00	17.0-19.0	9.0-12.0	—	0.1	≥ Ti 5 × (C + N), ≤ 0.70
2205	0.03	2.00	0.03	0.02	1.00	22.0-23.0	4.5-6.5	3.0-3.5	0.14-0.20	—
2507	0.03	1.20	0.035	0.02	0.8	24.0-26.0	6.0-8.0	3.0-5.0	0.24-0.32	Cu ≤ 0.50
410	0.08-0.15	1.00	0.04	0.03	1.00	11.5-13.5	—	—	—	—
430	0.12	1.00	0.04	0.03	1.00	16.0-18.0	—	—	—	—
904L	0.02	2.00	0.045	0.035	1.00	19.0-23.0	23.0-28.0	4.00-5.00	0.1	Cu 1.00-2.00

PLAIN / TWILL WEAVE



Plain Weave



Twill Weave

Plain/Twill Weave						
Weave Style	Mesh	Wire Dia. (mm)	Opening (mm)	Opening (μm)	Open Area (%)	Approx. Weight kg/m ²
Plain	2 x 2	2.03	10.67	10687	70.6	4.05
Plain	2 x 2	1.60	11.10	11119	76.4	2.52
Plain	2 x 2	1.37	11.33	11348	79.6	1.84
Plain	3 x 3	2.03	6.43	6438	57.6	6.17
Plain	3 x 3	1.83	6.63	6641	61.3	4.98
Plain	3 x 3	1.60	6.86	6870	65.6	3.79
Plain	3 x 3	1.37	7.09	7099	70.1	2.80
Plain	3 x 3	1.19	7.26	7277	73.6	2.09
Plain	3 x 3	1.04	7.42	7438	76.7	1.59
Plain	4 x 4	3.05	3.30	3308	27	19.16
Plain	4 x 4	2.67	3.68	3690	33.6	15.10
Plain	4 x 4	2.34	4.01	4020	39.9	11.39
Plain	4 x 4	2.03	4.32	4326	46.2	8.49
Plain	4 x 4	1.83	0.45	453	50.7	6.82
Plain	4 x 4	1.60	4.75	4758	56	5.17
Plain	4 x 4	1.37	4.98	4987	61.5	3.77
Plain	4 x 4	1.19	5.16	5165	65.9	2.84
Plain	4 x 4	1.04	5.31	5318	69.9	2.15
Plain	4 x 4	0.89	5.46	5471	74	1.56
Plain	4 x 4	0.81	5.54	5547	76	1.30
Plain	4 x 4	0.71	5.64	5649	78.9	1.00
Plain	4 x 4	0.64	5.72	5725	81	0.80
Plain	5 x 5	1.60	3.48	3486	46.9	6.57
Plain	5 x 5	1.37	3.71	3715	53.3	4.77
Plain	5 x 5	1.19	3.89	3893	58.5	3.58
Plain	5 x 5	1.04	4.04	4046	63.2	2.70
Plain	5 x 5	0.89	4.19	4198	68.1	1.96
Plain	5 x 5	0.81	4.27	4275	70.6	1.64
Plain	6 x 6	1.60	2.64	2646	38.9	8.04
Plain	6 x 6	1.37	2.87	2875	46	5.81
Plain	6 x 6	1.19	3.05	3053	51.8	4.35
Plain	6 x 6	1.04	3.20	3206	57.2	3.28
Plain	6 x 6	0.89	3.35	3359	62.7	2.37
Plain	6 x 6	0.81	3.43	3435	65.6	1.01
Plain	6 x 6	0.71	3.53	3537	69.6	1.50
Plain	7 x 7	0.89	2.74	2748	57.2	2.79
Plain	7 x 7	0.81	2.82	2824	60.4	2.32

Plain/Twill Weave						
Weave Style	Mesh	Wire Dia. (mm)	Opening (mm)	Opening (μm)	Open Area (%)	Approx. Weight kg/m2
Plain	7 x 7	0.71	2.92	2926	64.8	1.77
Plain	8 X 8	1.60	1.57	1578	24.6	10.67
Plain	8 X 8	1.37	1.80	1807	32.3	8.02
Plain	8 X 8	1.19	1.98	1985	38.9	5.96
Plain	8 X 8	1.04	2.13	2137	45.2	4.47
Plain	8 X 8	0.89	2.29	2290	51.8	3.18
Plain	8 X 8	0.81	2.36	2366	55.4	2.67
Plain	8 X 8	0.71	2.46	2468	60.2	2.30
Plain	8 X 8	0.64	2.54	2545	64	1.61
Plain	9 X 9	1.04	1.78	1781	39.7	5.09
Plain	9 X 9	0.89	1.93	1934	46.8	3.65
Plain	9 X 9	0.81	2.01	2010	50.6	3.03
Plain	9 X 9	0.71	2.11	2112	55.8	2.30
Plain	9 X 9	0.64	2.18	2188	59.9	1.82
Plain	9 X 9	0.58	2.24	2239	62.7	1.53
Plain	10 x 10	1.19	1.35	1349	28.1	7.32
Plain	10 x 10	1.04	1.50	1501	34.8	5.74
Plain	10 x 10	0.89	1.65	1654	42.3	4.10
Plain	10 x 10	0.81	1.73	1730	46.2	3.39
Plain	10 x 10	0.71	1.83	1832	51.8	2.57
Plain	10 x 10	0.64	1.91	1908	56.3	2.03
Plain	10 x 10	0.58	1.96	1959	59.3	1.71
Plain	10 x 10	0.51	2.03	2036	64	1.29
Plain	11 x 11	0.81	1.50	1501	42.1	3.77
Plain	11 x 11	0.71	1.60	1603	48	2.85
Plain	11 x 11	0.64	1.68	1679	52.7	2.25
Plain	11 x 11	0.58	1.73	1730	56	1.89
Plain	11 x 11	0.51	1.80	1807	61	1.42
Plain	11 x 11	0.46	1.85	1857	64.5	1.15
Plain	12 x 12	0.81	1.30	1298	37.5	4.15
Plain	12 x 12	0.71	1.40	1399	43.6	3.13
Plain	12 x 12	0.64	1.47	1476	48.4	2.47
Plain	12 x 12	0.58	1.52	1527	51.8	2.08
Plain	12 x 12	0.51	1.60	1603	57.2	1.56
Plain	12 x 12	0.46	1.65	1654	60.8	1.26
Plain	14 x 14	0.71	1.09	1094	36.2	3.73
Plain	14 x 14	0.64	1.17	1170	41.5	2.92
Plain	14 x 14	0.58	1.22	1221	45.2	2.46
Plain	14 x 14	0.51	1.30	1298	51	1.84
Plain	14 x 14	0.46	1.35	1349	55.1	1.84
Plain	14 x 14	0.43	1.37	1374	57.2	1.31
Plain	14 x 14	0.23	1.57	1578	76.4	0.44
Plain	16 x 16	0.71	0.88	878	30.5	4.12
Plain	16 x 16	0.64	0.95	954	36	3.40
Plain	16 x 16	0.58	1.00	1005	39.9	2.85
Plain	16 x 16	0.51	1.08	1081	46.2	2.12
Plain	16 x 16	0.46	1.13	1132	50.7	1.70

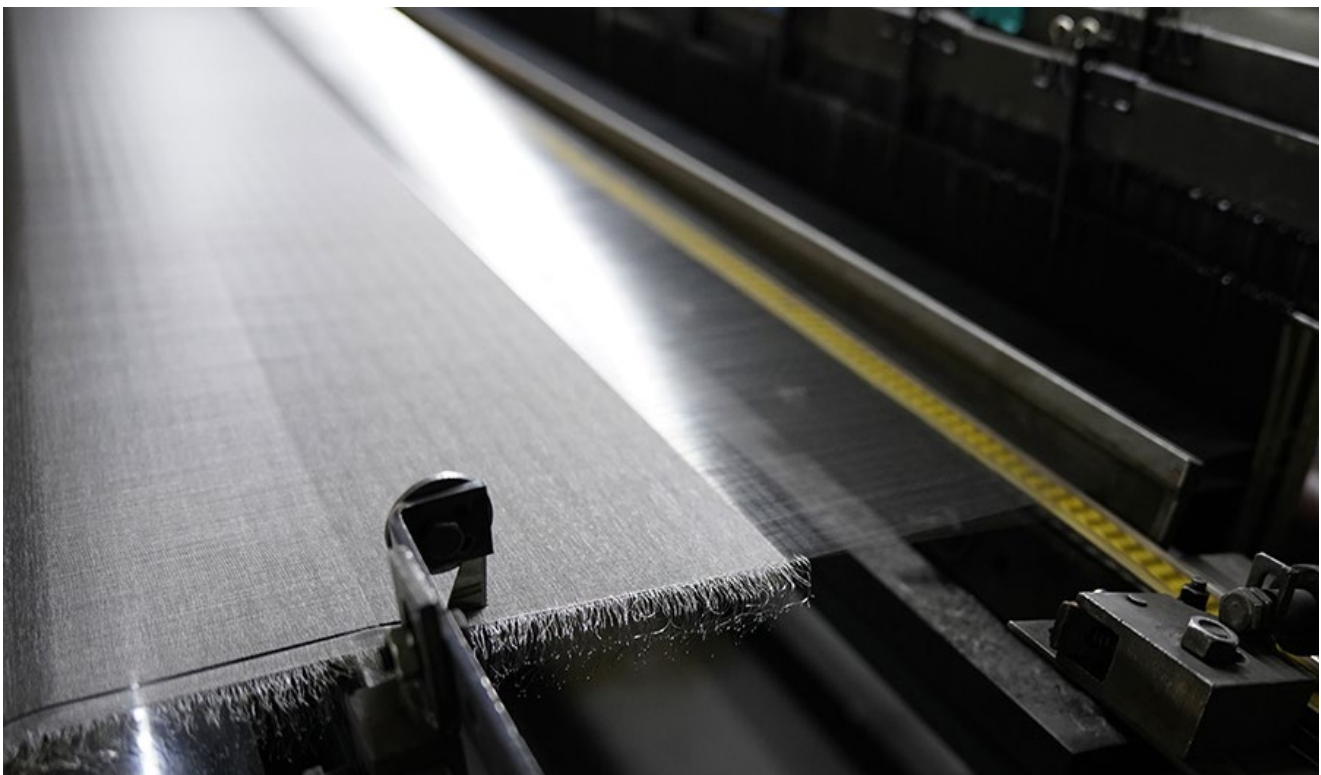
平织 / 斜织 (Plain/Twill Weave)

Weave Style	Mesh	Wire Dia. (mm)	Opening (mm)	Opening (μm)	Open Area (%)	Approx. Weight kg/m2
Plain	16 x 16	0.41	1.18	1183	55.4	1.34
Plain	16 x 16	0.23	1.36	1361	73.3	0.42
Plain	18 x 18	0.64	0.78	779	30.3	3.70
Plain	18 x 18	0.58	0.83	830	34.4	3.26
Plain	18 x 18	0.51	0.90	906	41.1	2.42
Plain	18 x 18	0.46	0.96	957	45.8	1.93
Plain	18 x 18	0.43	0.98	982	48.3	1.71
Plain	18 x 18	0.41	1.01	1008	50.8	1.51
Plain	18 x 18	0.38	1.03	1033	53.4	1.32
Plain	18 x 18	0.36	1.06	1059	56.1	1.15
Plain	18 x 18	0.34	1.07	1071	57.4	1.06
Plain	18 x 18	0.23	1.18	1186	70.2	0.47
Plain	20 x 20	0.71	0.56	560	19.4	5.39
Plain	20 x 20	0.64	0.64	636	25	4.19
Plain	20 x 20	0.58	0.69	687	29.2	3.49
Plain	20 x 20	0.51	0.76	763	36	2.72
Plain	20 x 20	0.46	0.81	814	41	2.17
Plain	20 x 20	0.43	0.84	840	43.6	1.93
Plain	20 x 20	0.41	0.86	865	46.2	1.69
Plain	20 x 20	0.38	0.89	891	49	1.48
Plain	20 x 20	0.36	0.91	916	51.8	1.29
Plain	20 x 20	0.33	0.94	941	54.8	1.10
Plain	20 x 20	0.23	1.04	1043	67.2	0.52
Plain	22 x 22	0.41	0.75	751	42.1	1.88
Plain	22 x 22	0.38	0.77	776	45	1.65
Plain	22 x 22	0.34	0.80	802	48	1.32
Plain	22 x 22	0.19	0.97	967	69.7	0.40
Plain	24 x 24	0.43	0.63	628	35.1	2.37
Plain	24 x 24	0.41	0.65	654	38	2.08
Plain	24 x 24	0.38	0.68	679	41.1	1.81
Plain	24 x 24	0.36	0.70	705	44.2	1.57
Plain	24 x 24	0.33	0.73	730	47.4	1.34
Plain	24 x 24	0.30	0.75	756	50.8	1.13
Plain	24 x 24	0.28	0.78	781	54.3	0.95
Plain	24 x 24	0.25	0.81	807	57.9	0.78
Plain	24 x 24	0.19	0.87	870	67.2	0.43
Plain	26 x 26	0.33	0.65	649	44	1.46
Plain	26 x 26	0.30	0.67	674	47.5	1.24
Plain	26 x 26	0.28	0.70	700	51.1	1.03
Plain	26 x 26	0.25	0.72	725	54.9	0.85
Plain	26 x 26	0.24	0.75	751	56.9	0.77
Plain	26 x 26	0.19	0.79	789	64.8	0.46
Plain	28 x 28	0.34	0.56	565	38.6	1.72
Plain	28 x 28	0.33	0.58	578	40.4	1.59
Plain	28 x 28	0.30	0.60	603	44	1.34
Plain	28 x 28	0.28	0.63	628	47.8	1.12
Plain	28 x 28	0.25	0.65	654	51.8	0.92

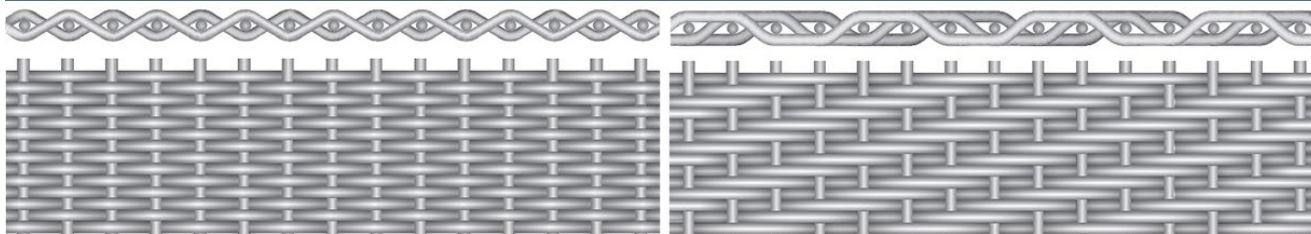
Plain/Twill Weave						
Weave Style	Mesh	Wire Dia. (mm)	Opening (mm)	Opening (μm)	Open Area (%)	Approx. Weight kg/m2
Plain	28 x 28	0.24	0.67	667	53.8	0.83
Plain	28 x 28	0.23	0.68	679	55.9	0.74
Plain	28 x 28	0.19	0.72	718	62.4	0.51
Twill	30 x 30	0.43	0.41	415	23.9	3.41
Twill	30 x 30	0.41	0.44	440	26.9	3.05
Twill	30 x 30	0.38	0.46	466	30.1	2.34
Twill	30 x 30	0.36	0.49	491	33.5	2.01
Plain	30 x 30	0.34	0.50	504	35.3	1.87
Plain	30 x 30	0.33	0.52	517	37.1	1.71
Plain	30 x 30	0.30	0.54	542	40.8	1.45
Plain	30 x 30	0.28	0.57	567	44.8	1.21
Plain	30 x 30	0.25	0.59	593	48.9	0.99
Plain	30 x 30	0.24	0.60	606	51	0.89
Plain	30 x 30	0.23	0.62	618	53.1	0.80
Plain	30 x 30	0.22	0.63	631	55.4	0.70
Plain	30 x 30	0.17	0.68	682	64.8	0.41
Plain	32 x 32	0.41	0.39	389	24	2.76
Plain	32 x 32	0.38	0.41	415	27.2	2.40
Plain	32 x 32	0.36	0.44	440	30.6	2.17
Plain	32 x 32	0.34	0.45	453	32.4	2.01
Plain	32 x 32	0.33	0.46	466	34.3	1.85
Plain	32 x 32	0.30	0.49	491	38.1	1.56
Plain	32 x 32	0.28	0.52	517	42.2	1.30
Plain	32 x 32	0.25	0.54	542	46.5	1.06
Plain	32 x 32	0.24	0.55	555	48.7	0.95
Plain	32 x 32	0.23	0.57	567	50.9	0.85
Plain	32 x 32	0.22	0.58	580	53.2	0.76
Plain	32 x 32	0.02	0.59	593	55.6	0.66
Plain	32 x 32	0.17	0.63	631	62.7	0.44
Plain	34 x 34	0.23	0.52	519	48.1	0.99
Plain	34 x 34	0.17	0.58	583	60.7	0.47
Plain	35 x 35	0.33	0.40	397	29.8	2.05
Plain	35 x 35	0.30	0.42	422	33.8	1.73
Plain	35 x 35	0.28	0.45	448	37.9	1.43
Plain	35 x 35	0.25	0.47	473	42.4	1.17
Plain	36 x 36	0.17	0.54	542	58.7	0.50
Plain	36 x 36	0.23	0.48	478	45.8	1.06
Plain	38 x 38	0.28	0.39	389	33.8	1.57
Plain	38 x 38	0.25	0.41	415	38.4	1.28
Plain	38 x 38	0.24	0.43	427	40.8	1.15
Plain	38 x 38	0.23	0.44	440	43.2	1.03
Plain	38 x 38	0.22	0.45	453	45.8	1.00
Plain	38 x 38	0.20	0.46	466	48.4	0.88
Plain	38 x 38	0.17	0.50	504	56.7	0.52
Plain	40 x 40	0.30	0.33	331	27	2.02
Plain	40 x 40	0.28	0.36	356	31.4	1.66
Plain	40 x 40	0.25	0.38	382	36	1.36

Plain/Twill Weave						
Weave Style	Mesh	Wire Dia. (mm)	Opening (mm)	Opening (μm)	Open Area (%)	Approx. Weight kg/m ²
Plain	40 x 40	0.25	0.38	382	36	1.36
Plain	40 x 40	0.24	0.39	394	38.4	1.22
Plain	40 x 40	0.23	0.41	407	41	1.08
Plain	40 x 40	0.22	0.42	420	43.6	0.96
Plain	40 x 40	0.20	0.43	433	46.2	0.84
Plain	40 x 40	0.17	0.47	471	54.8	0.55
Plain	42 x 42	0.25	0.35	351	33.6	1.44
Plain	42 x 42	0.24	0.36	364	36.1	1.29
Plain	42 x 42	0.23	0.38	377	38.6	1.15
Plain	42 x 42	0.14	0.46	466	59.1	0.42
Plain	44 x 44	0.14	0.44	438	57.4	0.43
Plain	45 x 45	0.20	0.36	361	40.8	0.97
Plain	46 x 46	0.14	0.41	412	55.8	0.45
Plain	48 x 48	0.14	0.39	389	54.2	0.47
Plain	50 x 40	0.20	0.31 x 0.43	369	40.6	0.00
Plain	50 x 50	0.23	0.28	280	30.3	1.40
Plain	50 x 50	0.22	0.29	293	33.1	1.24
Plain	50 x 50	0.20	0.30	305	36	1.09
Plain	50 x 50	0.19	0.32	318	39.1	0.95
Plain	50 x 50	0.14	0.37	369	52.6	0.49
Plain	52 x 52	0.14	0.35	349	51	0.51
Plain	54 x 54	0.14	0.33	331	49.4	0.53
Plain	55 x 55	0.18	0.28	285	37.9	1.00
Plain	58 x 58	0.11	0.32	323	54.6	0.38
Plain	60 x 40	0.17	2.59 x 4.7	365	44.4	0.00
Plain	60 x 50	0.17	2.59 x 0.34	302	41.4	0.00
Twill	60 x 60	0.28	0.14	145	11.7	2.11
Twill	60 x 60	0.25	0.17	170	16.2	1.87
Plain	60 x 60	0.19	0.23	234	30.5	1.17
Plain	60 x 60	0.18	0.25	247	33.9	1.01
Plain	60 x 60	0.17	0.26	260	37.5	0.86
Plain	60 x 60	0.15	0.27	272	41.2	0.72
Plain	60 x 60	0.11	0.31	310	53.3	0.40
Plain	62 x 62	0.11	0.29	295	51.7	0.41
Plain	64 x 64	0.11	0.28	282	50.7	0.42
Plain	70 x 70	0.17	0.20	198	29.8	1.03
Plain	70 x 70	0.09	0.41	407	54.9	0.29
Plain	72 x 72	0.09	0.26	260	53.8	0.30
Plain	74 x 74	0.09	0.23	229	52.7	0.31
Plain	76 x 76	0.09	0.24	242	51.7	0.32
Plain	78 x 78	0.09	0.23	232	50.6	0.33
Plain	80 x 70	0.14	0.18 x 0.22	201	34.4	0.83
Twill	80 x 80	0.18	0.140	140	19.4	1.35
Plain	80 x 80	0.14	0.178	178	31.4	0.83
Plain	80 x 80	0.13	0.191	191	36	0.68
Plain	80 x 80	0.09	0.224	224	49.6	0.34
Plain	84 x 84	0.09	0.213	214	49.8	0.34

Plain/Twill Weave						
Weave Style	Mesh	Wire Dia. (mm)	Opening (mm)	Opening (μm)	Open Area (%)	Weight kg/m ²
Plain	88 x 88	0.09	0.201	201	47.9	0.35
Plain	90 x 90	0.09	0.193	193	47.8	0.36
Plain	94 x 94	0.09	0.180	181	45.4	0.38
Plain	100 x 90	0.11	0.14 x 0.168	154	32.6	0.68
Plain	100 x 100	0.11	0.14	140	30.3	0.70
Plain	100 x 100	0.102	0.152	153	36	0.54
Plain	105 x 105	0.076	0.165	165	46.9	0.31
Plain	120 x 120	0.094	0.117	117	30.7	0.50
Plain	120 x 120	0.066	0.147	148	47.3	0.24
Plain	135 x 135	0.058	0.130	130	47.4	0.23
Plain	145 x 145	0.056	0.119	120	46.4	0.24
Plain	150 x 150	0.066	0.104	104	37.4	0.35
Plain	165 x 165	0.048	0.107	107	47.1	0.21
Plain	180 x 180	0.058	0.084	84	34.7	0.37
Plain	200 x 200	0.058	0.069	69	29.1	0.36
Plain	200 x 200	0.053	0.074	74	33.6	0.31
Plain	200 x 200	0.041	0.086	87	46.2	0.18
Plain	230 x 230	0.036	0.074	74	46	0.17
Plain	250 x 250	0.041	0.061	61	36	0.21
Twill	270 x 270	0.041	0.053	53	32.2	0.23
Plain	300 x 300	0.030	0.046	46	29.7	0.15
Twill	325 x 325	0.036	0.043	43	30	0.21
Twill	400 x 400	0.028	0.036	36	31.4	0.17
Twill	500 x 500	0.025	0.025	25	25	
Twill	635 x 635	0.020	0.020	20	25	



席型/荷兰编织/DUTCH WEAVE

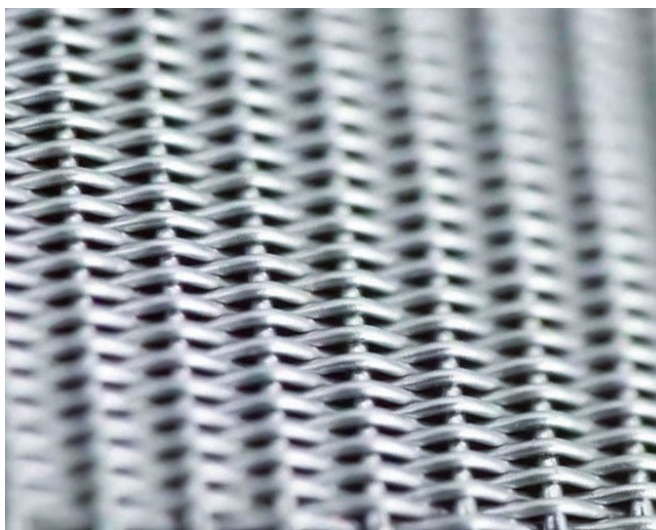
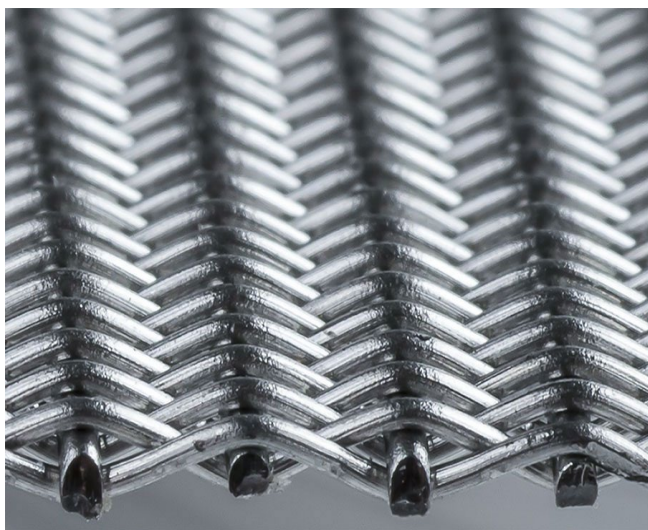


平纹荷兰编织/Plain Dutch Weave

斜纹荷兰编织/Twill Dutch Weave

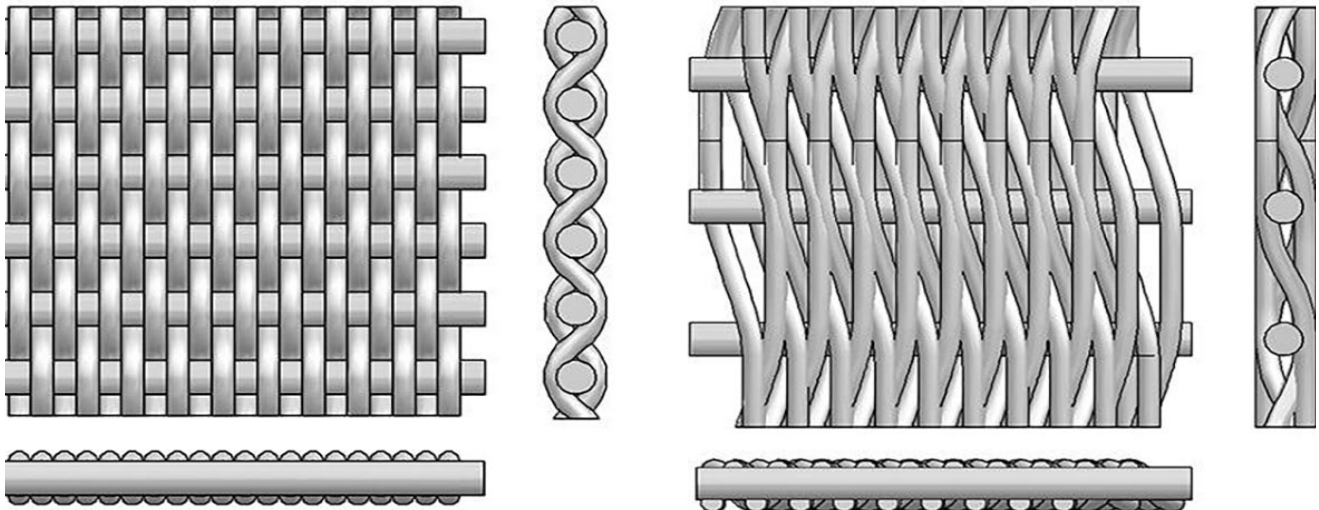
Plain Dutch Weave

Mesh	Absolute retention (μm)	Weight (kg/m ²)	Thickness (mm)
80×300	32-36	0.98	0.25
80×400	36-45	0.82	0.23
50×250	56-63	1	0.32
50×280	71-75	1	0.32
40×200	75-80	1.3	0.4
30×150	80-100	1	0.5
24×110	100-112	2.5	0.76
22×140	140-170	2.1	0.66
20×150	160-180	1.55	0.5
20×150	170-190	1.6	0.55
18×100	200-210	2.05	0.69
14×110	220-240	2.15	0.72
12×95	240-260	2.3	0.79
14×88	280-300	3.15	0.76
10×90	270-290	2.5	0.93
12×64	280-300	4.1	1.21
10×70	315-335	3	1.04
8×85	330-350	2.5	0.93



Twill Dutch Weave			
Mesh	Absolute retention (μm)	Weight (kg/m ²)	Thickness (mm)
510×3600	4-5	0.30	0.06
400×2800	5-6	0.36	0.06
375×2300	6-7	0.39	0.08
325×2300	7-8	0.47	0.09
260×1550	8-10	0.68	0.12
250×1400	11-12	0.68	0.12
200×1400	11-13	0.75	0.14
130×700	13-15	1.60	0.28
200×1120	15-17	0.95	0.16
165×1400	15-18	0.70	0.15
165×1100	20-21	0.90	0.16
80×700	34-36	1.20	0.26
40×560	71-80	1.70	0.39
30×360	95-106	2.60	0.54
30×250	100-112	3.20	0.65
20×260	110-120	3.10	0.67
28×560	106-112	1.95	0.46
24×300	112-118	2.85	0.63

反向荷兰编织/反差网/REVERSE DUTCH WEAVE



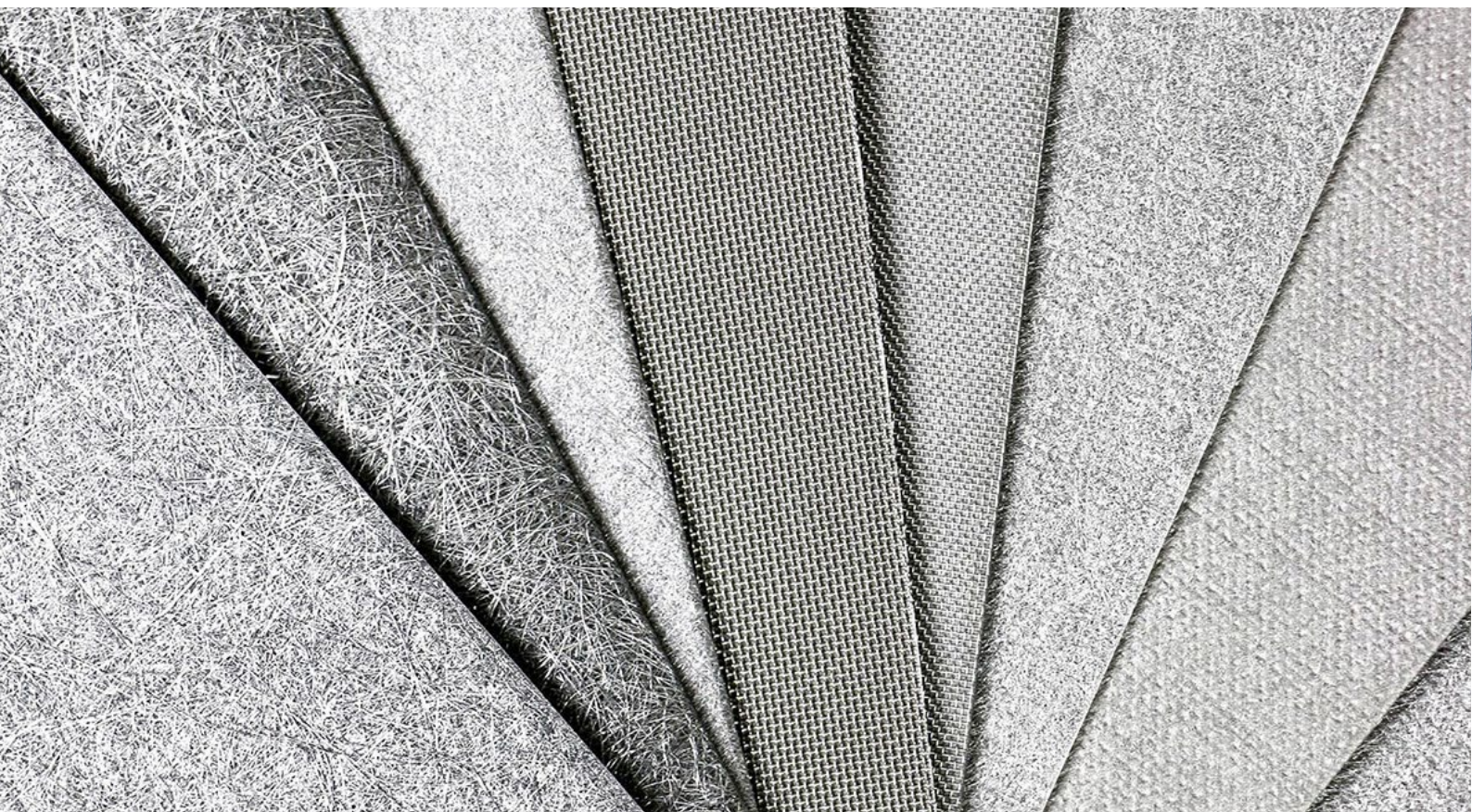
平纹反向荷兰编织

Plain Reverse Dutch Weave

斜纹反向荷兰编织

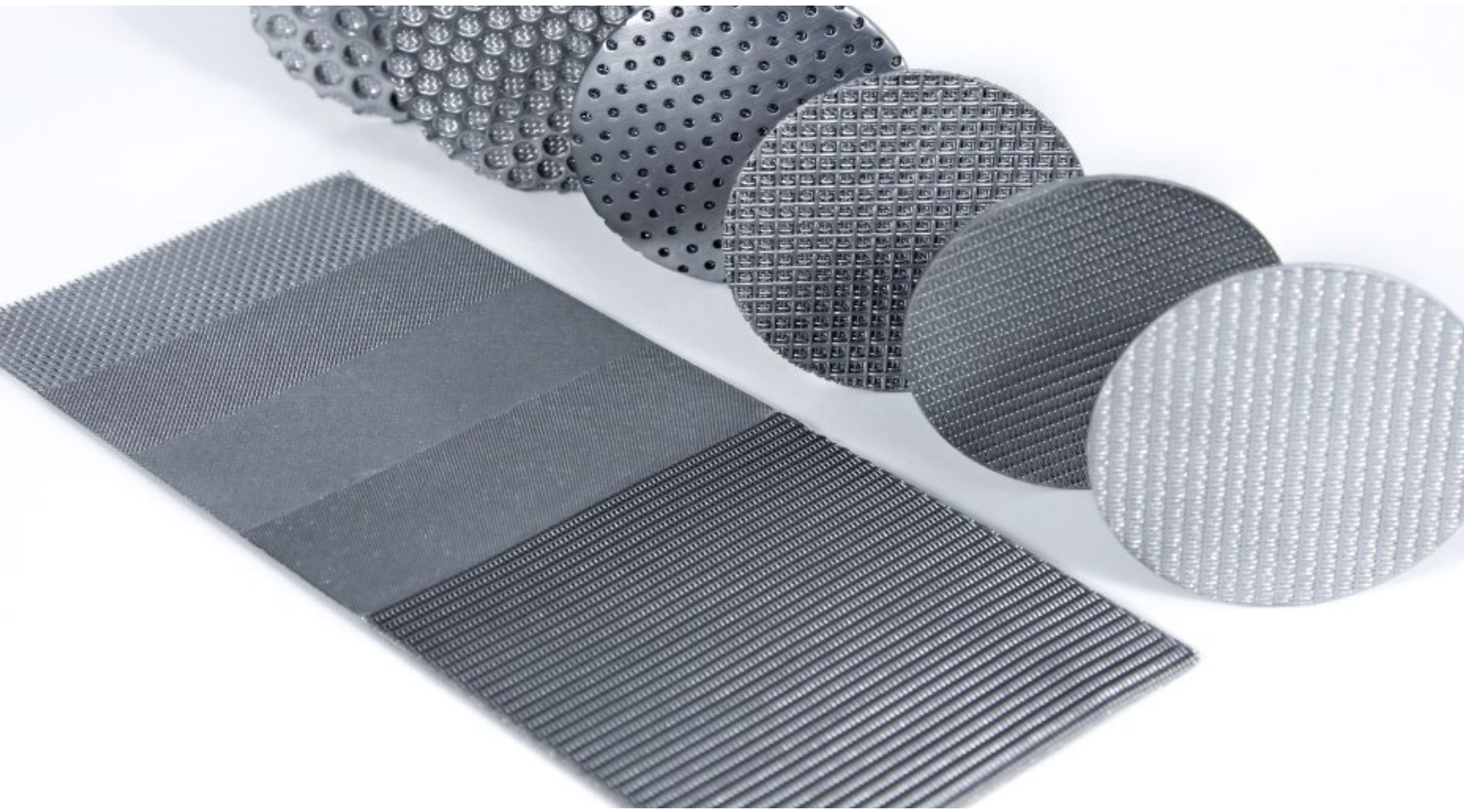
Twill Reverse Dutch Weave

Reverse Dutch Weave		
Mesh	Wire dia, mm	Thickness (mm)
72×15	0.45×0.55	1.75
120×15	0.35×0.45	1.25
132×17	0.32×0.45	1.2
150×17	0.30×0.45	1.2
152×24	0.27×0.40	1.05
152×30	0.25×0.30	1
170×17	0.27×0.45	1.17
260×40	0.15×0.25	0.65



Sintered Metal Mesh

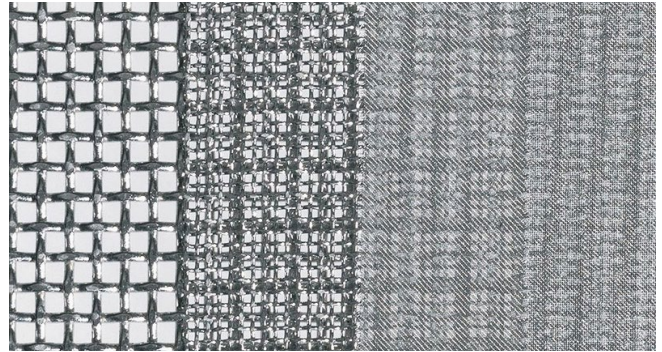
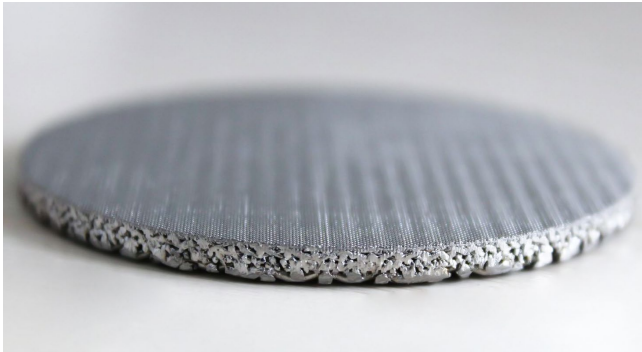
Brilliant Metals is a professional sintered mesh filter manufacturer, we provide filtration solutions for various filtration industries. Our main products are standard five-layer sintered wire mesh, flat woven sintered wire mesh, Dutch weave sintered wire mesh, perforated metal sintered wire mesh, sintered fiber, powder sintered filter mesh, etc. To meet different filtration requirements, we handle various raw materials, steel, stainless steel, non-ferrous metals and special materials. For special purposes, we can also handle customized needs. Air, liquid and solid filtration are very important, our advanced sintering equipment and inspection equipment ensure to provide you with high-quality, high-precision sintered filtration products.



Specifications of 5-Layer Sintered Mesh Filter

Model	Nominal Filter Rating (um)	Structure: Protective Layer + Control Layer + Dispersion Layer + Reinforce Layer + Reinforce Layer	Thickness (mm)	Air Permeability (L/min/cm ²)	Bubble Pressure (mm H ₂ O)	Weight (kg/m ²)
SWM5-1	1	100 + 400 × 2800 + 100 + 12 × 64 + 64 × 12	1.7	1.81	360-600	5-layer (8.4 kg/m ²)
SWM5-2	2	100 + 325 × 2300 + 100 + 12 × 64 + 64 × 12	1.7	2.35	300-590	
SWM5-5	5	100 + 200 × 1400 + 100 + 12 × 64 + 64 × 12	1.7	2.42	260-550	
SWM5-10	10	100 + 165 × 1400 + 100 + 12 × 64 + 64 × 12	1.7	3.00	220-500	
SWM5-15	15	100 + 165 × 1200 + 100 + 12 × 64 + 64 × 12	1.7	3.41	200-480	
SWM5-20	20	100 + 165 × 800 + 100 + 12 × 64 + 64 × 12	1.7	4.50	170-450	
SWM5-25	25	100 + 165 × 600 + 100 + 12 × 64 + 64 × 12	1.7	6.12	150-410	
SWM5-30	30	100 + 450 + 100 + 12 × 64 + 64 × 12	1.7	6.70	120-390	
SWM5-40	40	100 + 325 + 100 + 12 × 64 + 64 × 12	1.7	6.86	100-350	
SWM5-50	50	100 + 250 + 100 + 12 × 64 + 64 × 12	1.7	8.41	90-300	
SWM5-75	75	100 + 200 + 100 + 12 × 64 + 64 × 12	1.7	8.70	80-250	
SWM5-100	100	100 + 150 + 100 + 12 × 64 + 64 × 12	1.7	9.10	70-190	
SWM5-150	150	50 + 100 + 50 + 30 × 30 + 100 × 50	2.0	25	50-150	
SWM5-200	200	40 + 80 + 40 + 20 × 40 + 80 × 40	2.0	26	50-150	

Plain Weave Sintered Mesh



Material: AISI 304, 304L, 316, 316L, alloy Hastelloy, Monel, Inconel, etc.

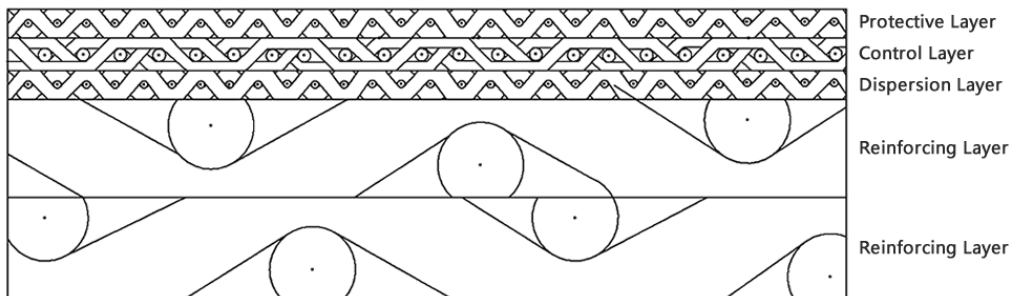
Filter rating: 1-200 μm

Standard size (mm):

300 × 1000, 300 × 1500, 500 × 1000, 600 × 1200, 1000 × 1000, 1200 × 1200, 1000 × 1500, 1200 × 1500.

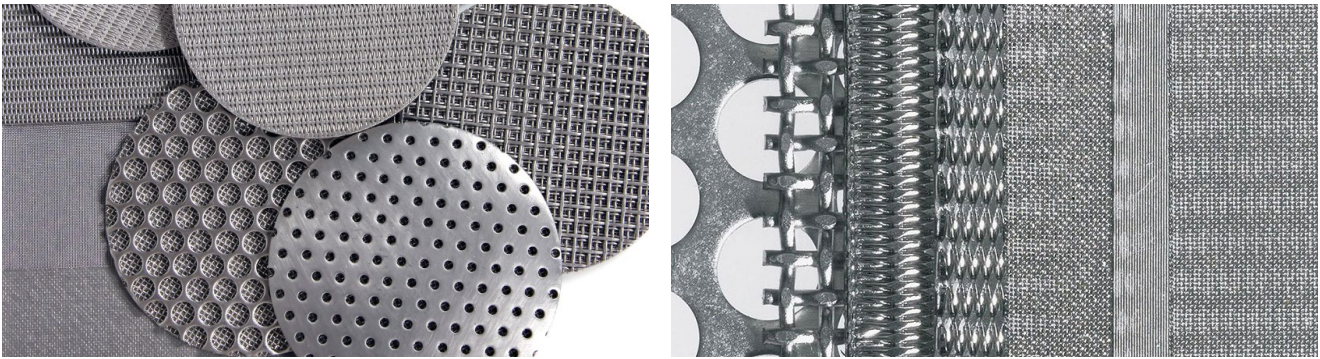
Thickness: 0.5-2 mm.

Uses: Filtration and purification, gas-solid, liquid-solid and gas-liquid separation, divergent cooling, gas distribution, air flotation transmission, fluidized bed, gas collection, shock absorption, noise reduction, flame retardant, etc.



Model	Struture	Filter rating (μm)	Thickness (mm)	Weight (kg/m ²)	Porosity (%)
PWS2-0.5T	Filter layer + 60	2-100	0.5	1.6	60
PWS3-0.7T	60 + Filter layer + 60	2-100	0.7	2.4	56
PWS3-1.0T	50 + Filter layer + 20	20-200	1.0	3.3	58
PWS3-2.0T	Filter layer + 20 + 8.5	20-250	2.0	6.5	58
PWS4-1.0T	60 + Filter layer + 40 + 20	2-200	1.0	4.4	44
PWS4-1.7T	40 + Filter layer + 20 + 16	2-200	1.7	6.2	54
PWS5-1.9T	30 + Filter layer + 60 + 20 + 16	2-200	1.9	5.3	52
PWS5-2.5T	80 + Filter layer + 30 + 10 + 8.5	2-200	2.5	8.8	55
PWS7-2.0T	50 + Filter layer + 40 + 20 + 40 + Filter layer + 50	2-150	2.0	7.4	58

Perforated Sintered Mesh



Material: AISI 304, 304L, 316, 316L, alloy Hastelloy, Monel, Inconel, etc.

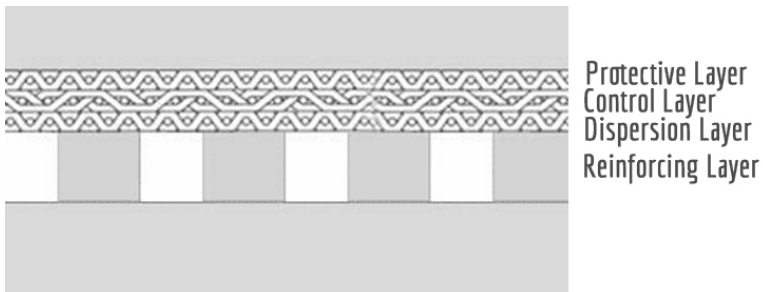
Filter rating: 1-200 μm

Standard size (mm):

300 × 1000, 300 × 1500, 500 × 1000, 600 × 1200, 1000 × 1000, 1200 × 1200, 1000 × 1500, 1200 × 1500.

Thickness: 2-5 mm.

Uses: Filtration and purification, gas-solid, liquid-solid and gas-liquid separation, divergent cooling, gas distribution, air flotation transmission, fluidized bed, gas collection, shock absorption, noise reduction, flame retardant, etc.



Item	Filter Rating (μm)	Structure	Thickness (mm)	Weight (kg/m ²)	Porosity (%)
PSM4-2.0T	2-200	30+Filter layer+30+Ø4 x 5P x 1.0T	2.0	6.7	57
PSM4-2.5T	2-200	30+Filter layer+30+Ø5 x 7P x 1.5T	2.5	9.8	50
PSM5-3.0T	2-200	60+Filter layer+60+20+Ø6 x 8P x 2.0T	3.0	11.8	50
PSM5-3.5T	2-200	20+Filter layer+20+10+Ø8 x 10P x 2.0T	3.5	12.6	54
PSM5-4.0T	2-200	20+Filter layer+20+10+Ø8 x 10P x 2.5T	4.0	14.2	55
PSM5-4.3T	5-200	20+Filter layer+20+10+Ø10 x 13P x 3.0T	4.3	16.9	50
PSM5-5.3T	5-200	20+Filter layer+20+10+Ø10 x 13P x 4.0T	5.3	20.6	51

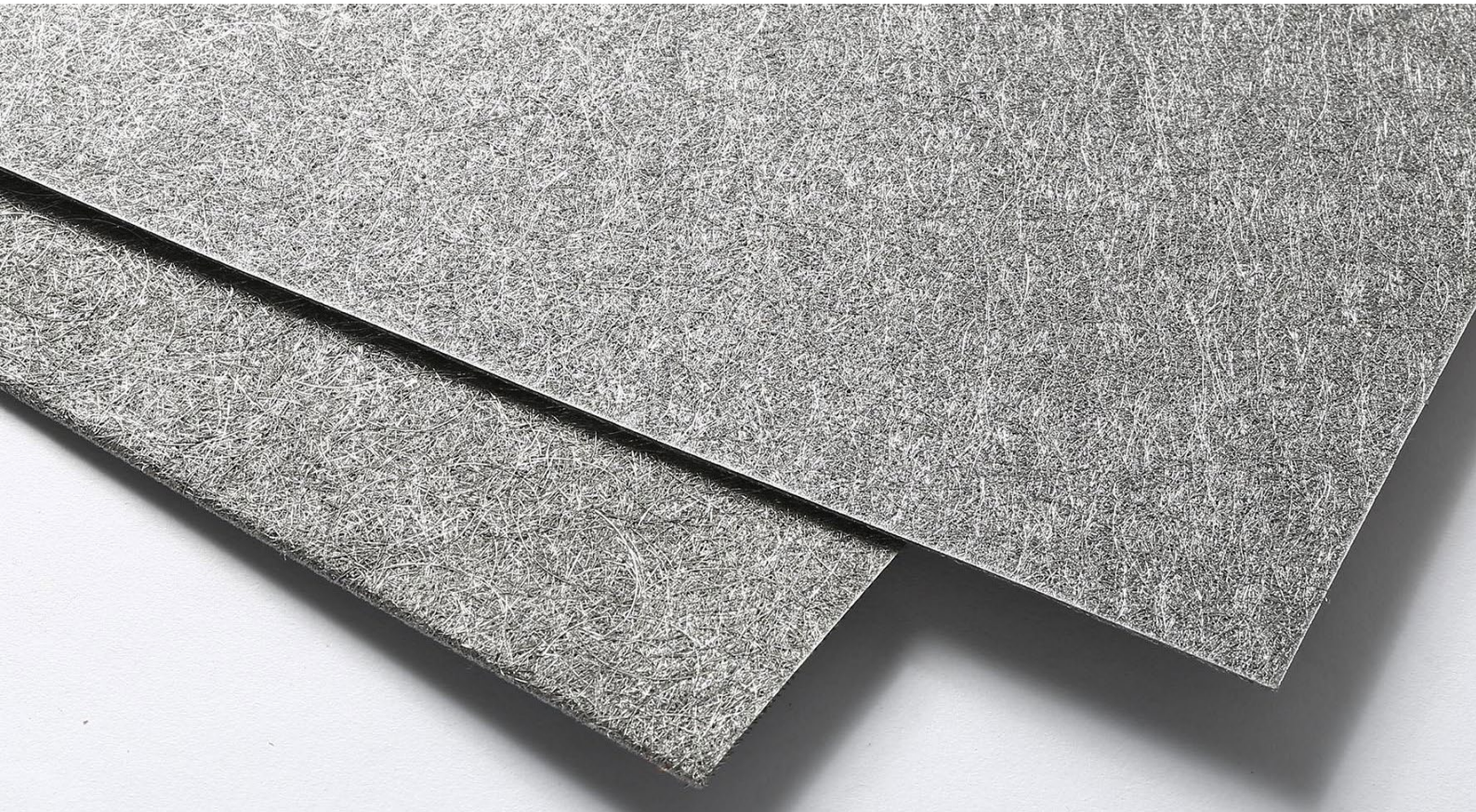


Sintered Fiber Felt

Stainless steel sintered felt is made of fibers accurate to the micron level through non-woven laying, lamination, and high-temperature sintering. The multi-layer fiber felt is composed of layers with different pore sizes to form a gradient, which can be controlled to obtain extremely high filtration accuracy and greater dirt holding capacity. It has the characteristics of three-dimensional network, porous structure, high porosity, large surface area, uniform pore size distribution, etc., and can continuously maintain the filtering effect of the mesh cloth. Due to the above structure and characteristics, the metal fiber sintered felt can effectively make up for the weakness of the metal mesh that is easy to be blocked and damaged, and can make up for the fragility and small flow of the powder filter product. Therefore, the metal fiber sintered felt is an ideal filter material with high temperature resistance, corrosion resistance and high precision.

Product Features:

1. Large dirt holding capacity, high filtration precision, slow pressure rise, and long replacement cycle.
2. High porosity and excellent permeability, small pressure loss and large flow.
3. It is resistant to high pressure, high temperature, corrosion and machinery.
4. Easy to process, form and weld.
5. Reinforced, thickened and other specifications can be specially produced according to user requirements.



Applications

Polymer filtration, viscose filtration, high temperature gas dust removal, filtration of oil burning process, and chemical catalyst filtration.

Specifications

Item	Precision (μm)	Bubble pressure point (Pa)	Permeability L/min. dm ²	Porosity (%)	Pollutant-holding capacity, mg/cm ³	Thickness (mm)
SFF5	5	6500	35	75	5	0.5
SFF7	7	5000	55	75	6	0.5
SFF10	10	3700	100	79	7	0.5
SFF15	15	2450	140	78	9	0.5
SFF20	20	1900	260	77	15	0.5
SFF25	25	1500	320	76	21	0.5
SFF30	30	1200	480	75	26	0.5
SFF40	40	950	650	77	35	0.5



Nickle Wire Mesh

Brilliant Metals Company is a leading nickel mesh manufacturer and supplier, our nickel wire mesh is made of high nickel wire with a purity of not less than 99%. We are capable of manufacturing ultra-fine nickel wire mesh (up to 400 mesh per inch) and ultra-thin nickel foil (as thin as 0.05mm).

Nickel wire mesh has high electrical and thermal conductivity and is a magnetic metal. In addition, nickel mesh is able to withstand extremely high temperatures, with an operating temperature of 315 °C and above and a melting point of 1455 °C. Nickel Wire Mesh Wide It has high resistance to different chemicals like caustic acids and alkalis.

Nickel's excellent resistance to high levels of corrosion and oxidation makes it a popular material that performs well in many different environments and is used in a wide variety of industries and applications. It is widely used as filter medium, nickel catalyst and nickel mesh electrode, filtration in industries such as mining, oil and gas, chemical, food, pharmaceutical, machinery, building and construction, electronics and battery production. Other applications include corrosion resistant parts, electronic parts, aerospace, etc.



Nickel Wire Mesh Specifications

Mesh number	SWG (Gauge)	Aperture (μm)	Effective section area (%)	Weight (kg/m ²)
20	32	1000	62	0.83
24	29	720	46	1.58
30	35	640	57	0.75
40	35	430	45	1.00
50	37	250	36	0.99
60	36	234	30	1.23
70	38	320	34	0.90
80	40	200	39	0.66
100	42	150	37	0.57
120	46	149	51	0.25
140	46	120	45	0.29
150	45	100	34	0.42
180	46	80	33	0.36
200	46	74	31	0.35
250	48	60	37	0.23
300	48	40	28	0.27
325	48	40	24	0.30
350	49	37	27	0.24
400	49	30	28	0.21



Copper Mesh, Brass Mesh and Bronze Mesh

Pure Copper Mesh: Pure copper is an alloy with ductility, ductility and electrical conductivity. Brilliant Metal Mesh provides 99.9% pure copper mesh in the industry test standard.

Brass Mesh: The chemical composition of brass woven wire mesh is about 65% copper, 35% zinc and about 80% copper, 20% zinc.

Bronze Mesh: Bronze woven wire mesh has a chemical composition of 90% copper and 10% zinc.

Uses: Widely used in the fields of electromagnetic shielding, electrical foundation, filtration and separation, and can also be used in fields such as insect shielding, decoration, architecture and art.

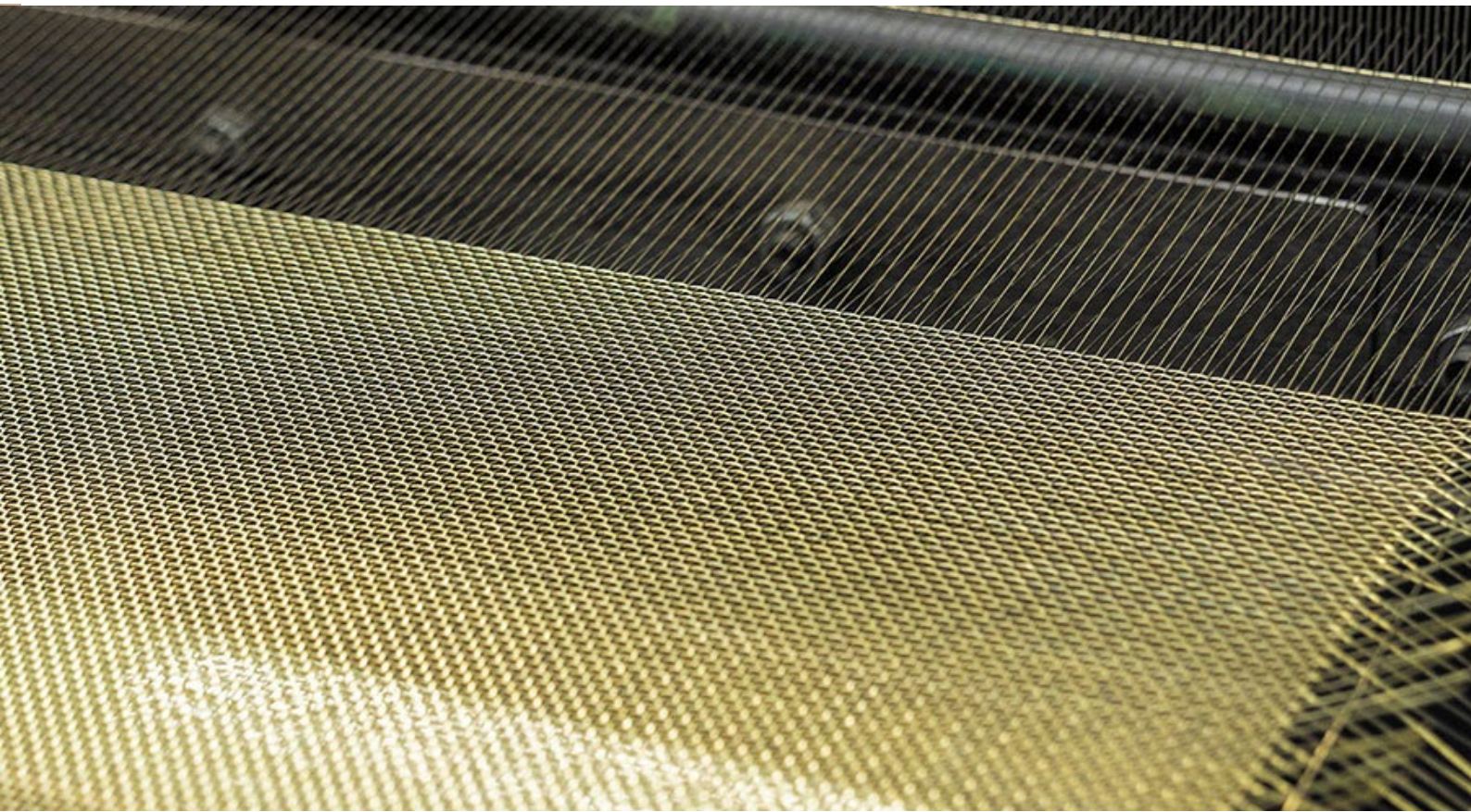
Copper mesh specifications:

Mesh: 4 - 400

Wire diameter: 0.05 - 1 mm

Mesh width: 0.1 - 1.5 m

Weave style: plain weave, twill weave, herringbone



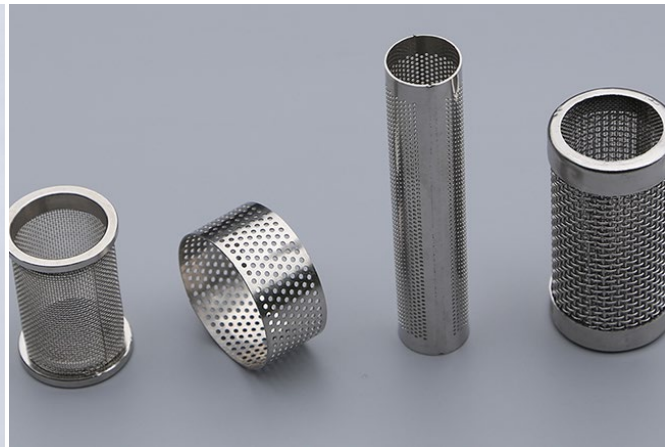
Specifications

Mesh	Wire Diameter		Opening	
	SWG	mm	In.	mm
6	22	0.71	0.028	3.52
8	23	0.61	0.024	2.57
10	25	0.51	0.02	2.03
12	26	0.46	0.018	1.66
14	27	0.42	0.016	1.40
16	29	0.35	0.014	1.24
18	30	0.32	0.012	1.10
20	30	0.32	0.012	0.96
22	30	0.33	0.012	0.84
24	0	0.32	0.012	0.74
26	31	0.30	0.012	0.68
28	31	0.30	0.012	0.61
30	32	0.25	0.011	0.57
32	33	0.25	0.01	0.54
34	34	0.23	0.009	0.51
36	34	0.23	0.009	0.47
38	35	0.21	0.008	0.46
40	36	0.19	0.008	0.44
42	36	0.19	0.008	0.41

Mesh	Wire Diameter		Opening	
	SWG	mm	In.	mm
44	37	0.17	0.007	0.40
46	37	0.17	0.007	0.40
48	37	0.17	0.007	0.36
50	37	0.17	0.007	0.34
60×50	36	0.19	0.008	0.20
60×50	37	0.17	0.007	0.18
60	37	0.17	0.007	0.25
70	39	0.13	0.005	0.23
80	40	0.12	0.005	0.20
90	41	0.11	0.004	0.17
100	42	0.10	0.004	0.15
120×108	43	0.09	0.004	0.09
120	44	0.08	0.003	0.13
140	46	0.06	0.002	0.12
150	46	0.06	0.002	0.11
160	46	0.06	0.002	0.10
180	47	0.05	0.002	0.09
200	47	0.05	0.002	0.08



Wire Mesh Filter, Sintered Filter

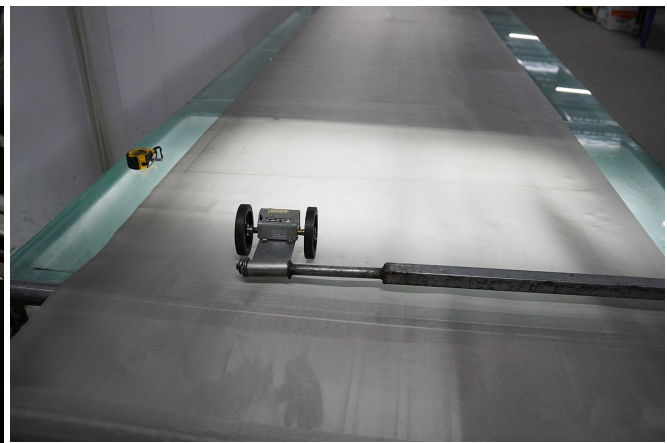
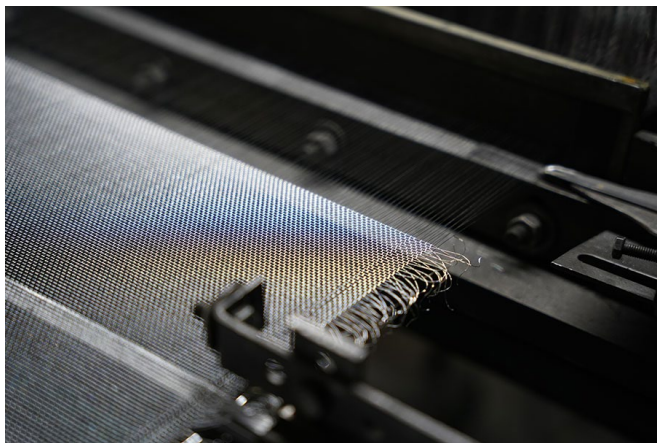




Filter Element, Filter Cartridge, Filter Discs



Factory Show



Factory Show

