

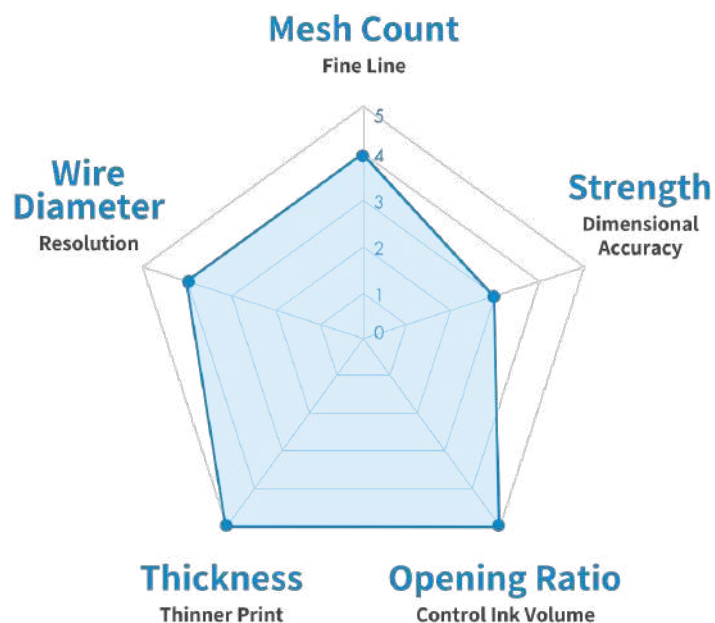
Screen Printing

Our stainless steel mesh for printing is searchable according to application purposes.



Standard -Type BS

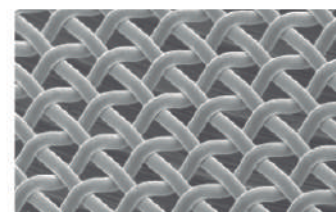
Basic Strength Stainless Steel Wire Woven Cloth



Using 25% higher tensile strength than standard 304, Standard-BS is our standard product which is adopted for wide use such as 100 micron fine line or thin deposit printing for MLCC. It is also used for sieving and filtration industries.



Cross Section View



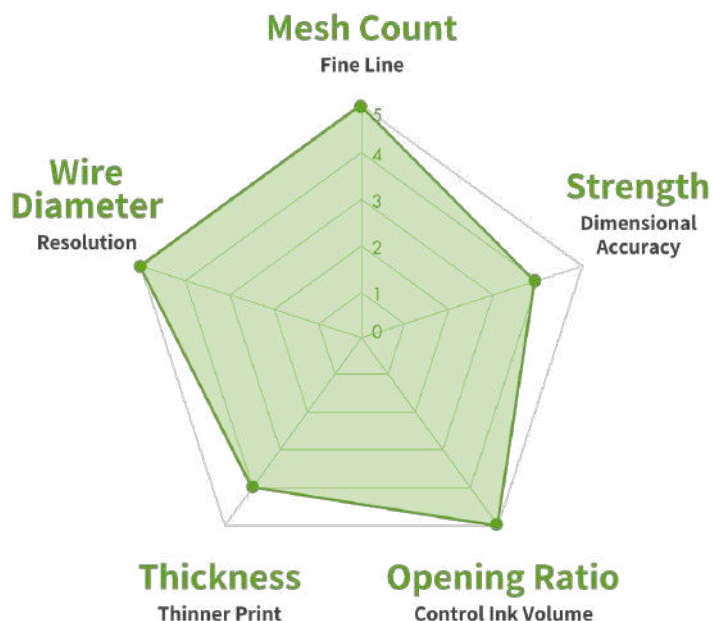
SEM Image

Specification

SPEC	MESH COUNT	WIRE DIA. (mm)	SIEVE SIZE (mm)	OPENING RATE	THICKNESS(μm)			
					NORMAL	Calender		
						SOFT	MIDDLE	HEAVY
BS-500/16	500	0.016	0.035	47%	36 ± 2	25 ± 2	20 ± 1	16 ± 1
BS-500/19	500	0.019	0.032	39%	41 ± 2	30 ± 2	25 ± 1	19 ± 1
BS-400/19	400	0.019	0.045	49%	39 ± 2	34 ± 2	30 ± 1	23 ± 1
BS-400/23	400	0.023	0.041	41%	55 ± 2	40 ± 2	35 ± 1	25 ± 1
BS-400/25	400	0.025	0.039	37%	57 ± 2	49 ± 2	40 ± 1	30 ± 1
BS-325/28	325	0.028	0.050	41%	62 ± 2	55 ± 2	47 ± 1	40 ± 1
BS-325/30	325	0.030	0.048	38%	62 ± 2	60 ± 2	47 ± 2	42 ± 1
BS-300/30	300	0.030	0.055	42%	68 ± 2	59 ± 2	50 ± 2	45 ± 1
BS-270/35	270	0.035	0.059	39%	77 ± 2	70 ± 2	58 ± 2	40 ± 2
BS-250/30	250	0.030	0.072	50%	62 ± 2	58 ± 2	50 ± 2	45 ± 2
BS-250/35	250	0.035	0.067	43%	78 ± 2	64 ± 2	57 ± 2	55 ± 2
BS-250/40	250	0.040	0.062	37%	90 ± 3	86 ± 2	72 ± 2	67 ± 2
BS-200/40	200	0.040	0.087	47%	82 ± 3	77 ± 2	72 ± 2	63 ± 2

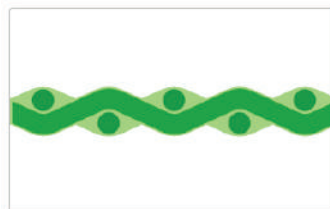
Hardmesh -Type MS

Medium-High Strength Stainless Steel Woven Wire Cloth

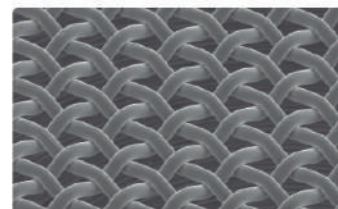


MS-Hardmesh is woven with 30% higher tensile strength wires than BS-Standard to meet Screen Printing demands such as high dimensional accuracy and screen mask longevity.

We were successful in developing 640 or 730 mesh, which are mainly used in MLCC industries. It is also appropriate for fine line printing and used for drawing 30 micron electrode lines in Touch Panel application.



Cross Section View



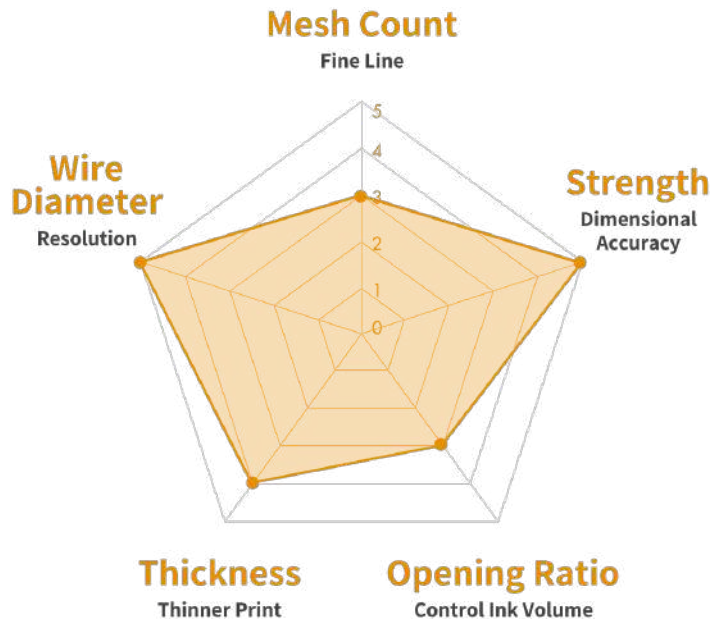
SEM Image

Specification

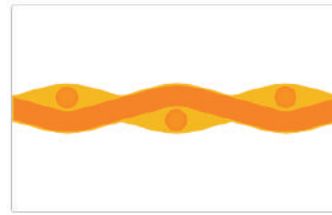
SPEC	MESH COUNT	WIRE DIA. (mm)	SIEVE SIZE (mm)	OPENING RATE	THICKNESS (μm)			
					NORMAL	Calendar		
						SOFT	MIDDLE	HEAVY
MS-730/13	730	0.013	0.022	39%	28 ± 2	20 ± 1	18 ± 1	15 ± 1
MS-640/15	640	0.015	0.025	39%	35 ± 2	25 ± 1	21 ± 1	17 ± 1
MS-500/16	500	0.016	0.035	47%	36 ± 2	25 ± 2	20 ± 1	15 ± 1
MS-500/19	500	0.019	0.032	39%	41 ± 2	36 ± 2	25 ± 1	20 ± 1
MS-400/19	400	0.019	0.045	49%	42 ± 2	30 ± 2	23 ± 1	18 ± 1
MS-400/23	400	0.023	0.041	41%	55 ± 2	40 ± 2	35 ± 1	26 ± 1
MS-325/24	325	0.024	0.054	48%	51 ± 2	44 ± 2	38 ± 2	25 ± 1
MS-325/28	325	0.028	0.050	41%	56 ± 2	51 ± 2	45 ± 2	39 ± 2
MS-250/30	250	0.030	0.072	50%	62 ± 2	58 ± 2	45 ± 2	28 ± 2

Supermesh -Type HS & SHS & UHS

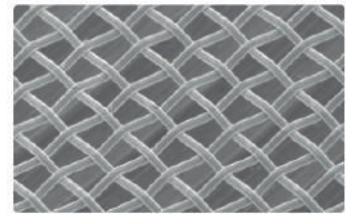
Medium-High Strength Stainless Steel Woven Wire Cloth



By using stainless steel wires of 3 times higher strength than BS with low elongation, wires are woven at an open It's "ratio" of 60%. It is appropriate for solder bump or paste dropping printing.



Cross Section View



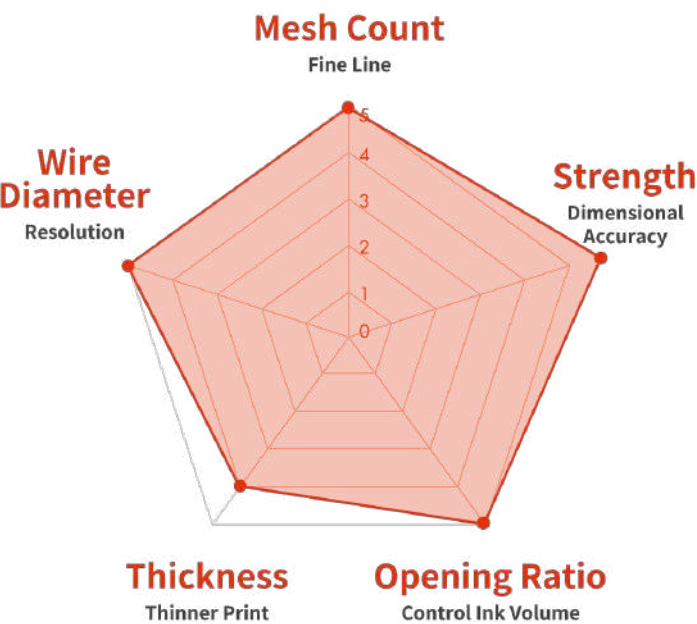
SEM Image

Specification

SPEC	MESH COUNT	WIRE DIA. (mm)	SIEVE SIZE (mm)	OPENING RATE	THICKNESS (μm)			
					NORMAL	Calender		
						SOFT	MIDDLE	HEAVY
UHS-520/11	520	0.011	0.038	60%	26 ± 3	21 ± 2	17 ± 1	11 ± 1
HS-R-500/13	500	0.013	0.038	55%	29 ± 3	24 ± 2	21 ± 1	17 ± 1
SHS-430/13	430	0.013	0.046	61%	29 ± 3	24 ± 2	21 ± 1	17 ± 1
SHS-R-400/16	400	0.016	0.048	56%	36 ± 3	25 ± 2	21 ± 1	15 ± 1
SHS-380/14	380	0.014	0.053	62%	32 ± 2	26 ± 2	20 ± 1	14 ± 1
SHS-360/16	360	0.016	0.055	60%	36 ± 3	32 ± 2	21 ± 1	16 ± 1
SHS-325/16	325	0.016	0.062	63%	35 ± 3	32 ± 2	20 ± 1	18 ± 1
SHS-290/20	290	0.020	0.068	60%	45 ± 3	36 ± 2	30 ± 1	20 ± 1
HS-360/16	360	0.016	0.055	60%	36 ± 3	32 ± 2	20 ± 1	16 ± 1
HS-325/16	325	0.016	0.062	63%	35 ± 2	32 ± 2	20 ± 1	17 ± 1
HS-290/20	290	0.020	0.068	60%	45 ± 2	36 ± 2	30 ± 1	20 ± 1
HS-250/20	250	0.020	0.082	65%	44 ± 2	37 ± 2	30 ± 1	18 ± 1
HS-230/25	230	0.025	0.085	60%	55 ± 2	40 ± 2	30 ± 2	27 ± 1

Ultra Hard -Type HS-D

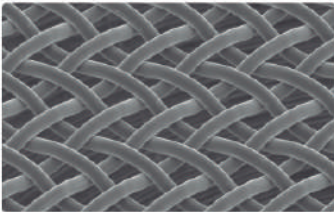
Ultra-Hard “Non-distortion” Stainless Steel Woven Wire Cloth



Tensile strength of Supermesh HS-D is over 3 times greater than BS- Standard. Produces more stable and dimensional accurate print plus it has an expected longevity of 2X-3X of conventional meshes. Screen printing potential will be further enhanced.



Cross Section View



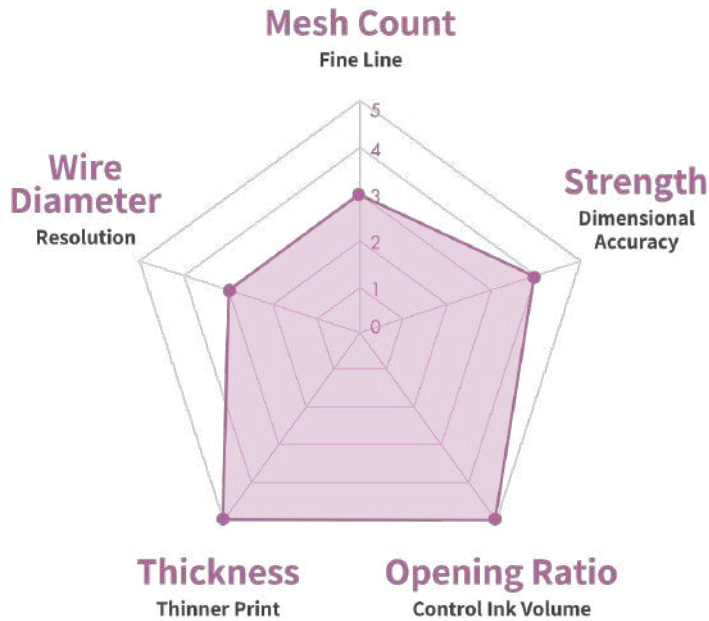
SEM Image

Specification

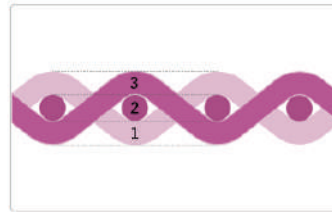
SPEC	MESH COUNT	WIRE DIA. (mm)	SIEVE SIZE (mm)	OPENING RATE	THICKNESS (μm)			
					NORMAL	Calender		
						SOFT	MIDDLE	HEAVY
HS-D 650/14	650	0.014	0.025	41%	34 ± 2			23 ± 2
HS-D 500/19	500	0.019	0.032	39%	45 ± 2			25 ± 1
HS-D 360/25	360	0.025	0.046	42%	59 ± 2		41 ± 2	29 ± 1
HS-D 250/35	250	0.035	0.067	43%	—			44 ± 1

3D-mesh®-Type 3D

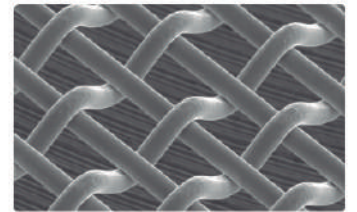
Stainless Steel Thick Woven Wire Cloth



Wires are woven into special weaving structure yields a mesh 3 times thicker than the wire diameter. 3D-mesh is suitable for solid printing.



Cross Section View



SEM Image

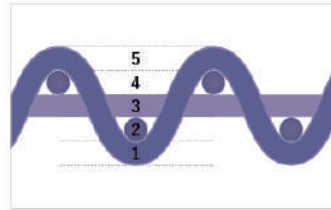
Specification

SPEC	MESH COUNT	WIRE DIA. (mm)	SIEVE SIZE (mm)	OPENING RATE	THICKNESS (μm)			
					NORMAL	Calender		
						SOFT	MIDDLE	HEAVY
3D-400-66	400	0.023	0.041	41%	66 ± 3			
3D-325-77	325	0.028	0.050	41%	75 ± 3			
3D-250-85	250	0.030	0.072	50%	83 ± 4			
3D-200-115	200	0.040	0.087	47%	112 ± 4			
3D-165-126	165	0.045	0.109	50%	124 ± 5			
3D-120-165	120	0.060	0.152	51%	165 ± 5			
3D-80-225	80	0.080	0.238	56%	225 ± 5			

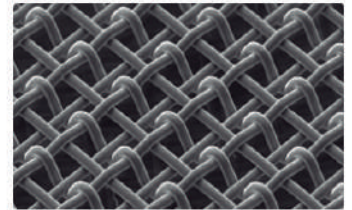
Solidmesh -Type S4 & S5

Stainless Steel Ultra Thick Woven Wire Cloth

By weaving flexible wire through super strong wire, we have made a unique mesh that is 4 to 5 times thicker than other mesh. Solidmesh, as it is called, is ideal for thicker screen printing.



Cross Section View



SEM Image

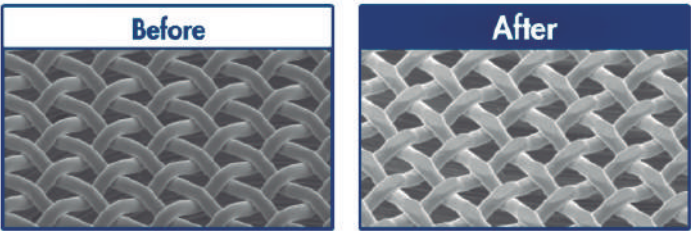
Specification

SPEC	MESH COUNT	WIRE DIA. (mm)	SIEVE SIZE (mm)	OPENING RATE	THICKNESS(μm)			
					NORMAL	Calender		
						SOFT	MIDDLE	HEAVY
S4-325-112	325	0.028	0.050	41%	112 ± 5			
S4-200-174	200	0.040	0.087	47%	174 ± 5			
S5-325-134	325	0.028	0.050	41%	134 ± 5			
S5-250-141	250	0.030	0.072	50%	141 ± 5			
S5-200-190	200	0.040	0.087	47%	190 ± 5			

Calender -Type CL

Calendering

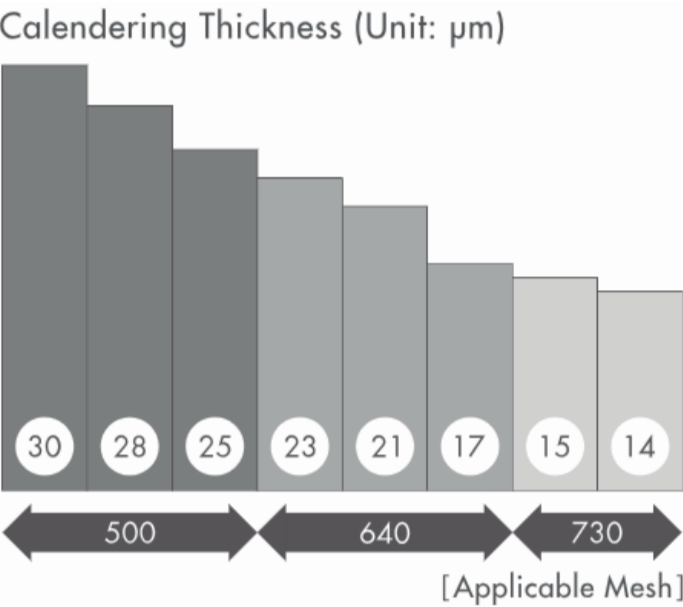
What is Calendering



Get accurate control of print thickness with calendering

In the MLCC application mesh thickness plays a large role in printing thin and consistent thickness and calendering 500, 640 and 730 mesh are mainly used recently. Thickness can be controlled with an accuracy level of 1.0 micron.

Fine Meshes and Calendering thinckness

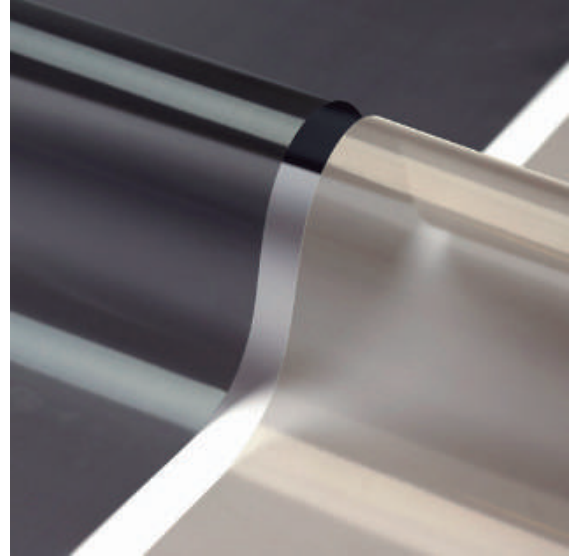


BlackScreen -Type BLK

Black Mesh

By making the surface of the stainless steel wire cloth black, it minimizes random reflection of light during exposure. It is useful when fine pattern image must be exposed and achieves high precision resolution.

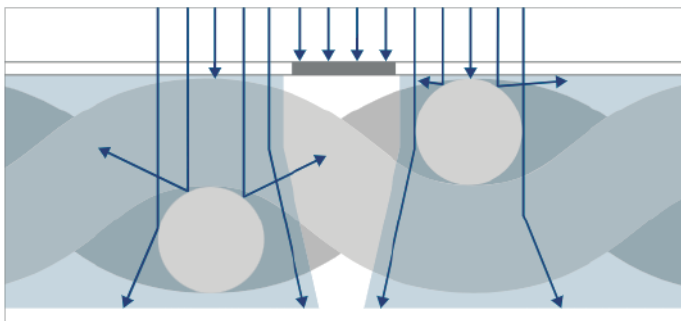
- The oxide layer is extremely thin and the surface is not damaged at all. It differs from paint or plating processing.



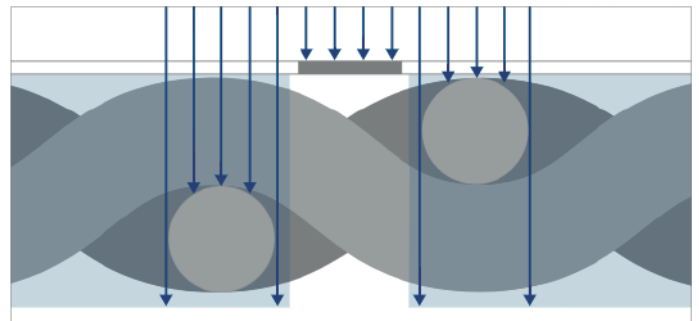
Black Mesh creates fine resolution of screen mask easier without UV-Light reflection

A stainless surface is covered with a transparent oxide layer which is mainly made of chromium ingredients. The stainless surface can be blackened by growing and controlling the oxide layer per 1/100 micron.

Before Black Mesh Processing



After Black Mesh Processing – prevents diffusion of reflection

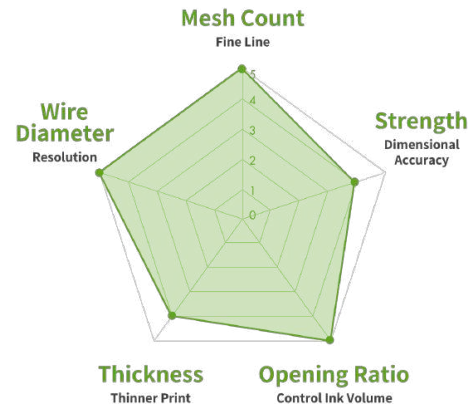


Comparison of characteristics

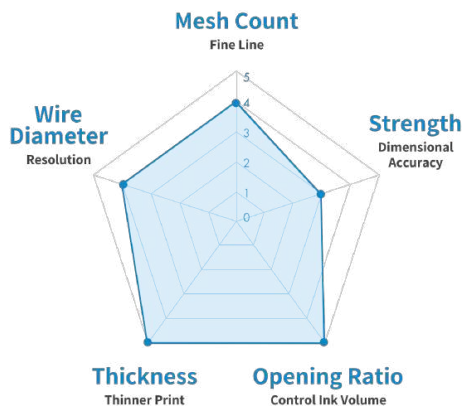
The mesh is sorted further into more specific categories such as mesh count, opening rate, thickness, and strength.

Because of this, you can choose the best mesh for your printing needs.

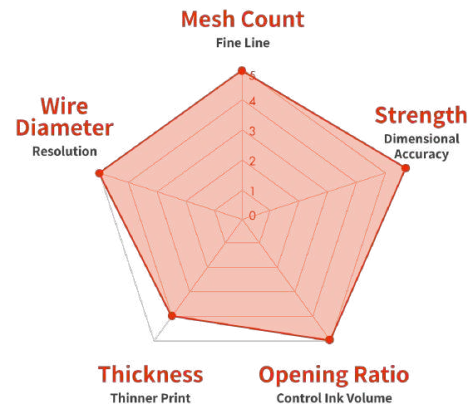
Hardmesh -Type MS



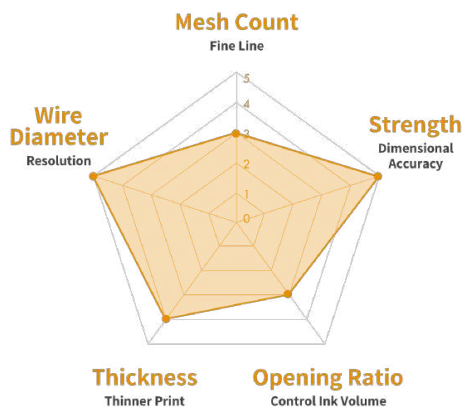
Standard -Type BS



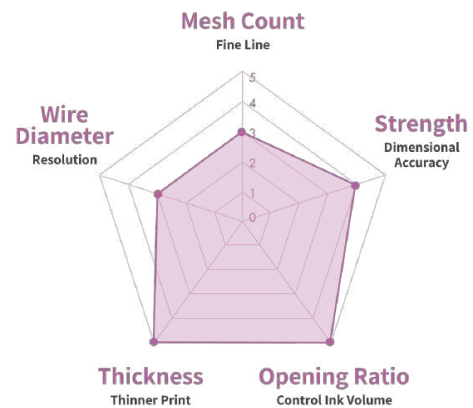
Ultra Hard -Type HS-D



Supermesh -Type HS & SHS & UHS



3D-mesh -Type 3D



Get in touch

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