

# Metal series

## Metallic wire meshes for precision industrial screen printing applications

All of NBC's metal meshes are woven with a special screen printing grade of precision metal wires, giving greater tensile strength, lower elongation and quality consistency to fulfill all technical demands of screen printing applications in electronics and photovoltaic markets.

We are proud to introduce 5 ranges of precision metal wire meshes such as below:-

### M-10 (Standard Stainless Steel Wire Mesh)

M-10 is NBC's standard stainless steel wire mesh produced with rigorous quality control. It is widely used for many sophisticated screen printing applications such as Printed Circuit Board, Membrane Switch, Solar Cells, Ceramic Packages, Capacitors and so forth. The reliable quality and print repeatability are well recognized by those markets.

### M-13 (Upgraded Stainless Steel Wire Mesh)

M-13 is upgraded NBC stainless steel wire mesh which is woven with 30% stronger stainless steel wire compared with standard stainless steel wire. The extra tensile strength of M-13 achieves higher screen tension and optimizes printing parameters for further improvement of dimensional accuracy, and prolongs screen service life.

### M-30 (Super Stainless Steel Wire Mesh)

M-30 has exceptionally low elongation and large mesh open area. It is woven with super stainless steel wire with 3 times stronger tensile strength than that of standard stainless steel wire. It minimizes mesh interference to print image while ensuring excellent paste transition; making it suitable for challenging applications utilizing high viscosity paste, such as Solar Cell, MLCC, LTCC and so forth.

### W-40 (Tungsten Wire Mesh, Next Generation)

M-40 is the next generation of wire meshes woven with tungsten wire which has even greater physical stability and print repeatability than the above super stainless steel wire mesh. Comparison of tensile strength per sq.mm is shown in the chart next page above.

### HDM (Heavy Deposit Mesh)

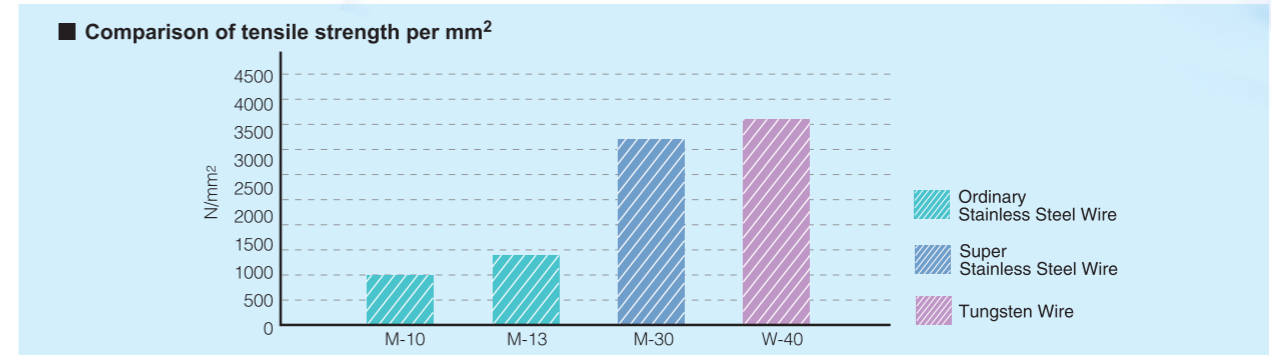
HDM is developed for specific screen-printing applications that require a heavy ink deposit. The below magnifying photo shows unique structure of HDM compared with standard wire mesh.



HDM 250-30



M-10-250-030



### M-10

Mesh Code	Mesh Count	Wire Diameter		Mesh Thickness	Mesh Opening	Open Area	Theoretical Deposit	Availability			Thickness of Calendered Mesh				
		/cm	/inch					µm	µm	µm	%	cm³/m²	100cm	122cm	152cm
M10 500-016	35/16	197	500	16	33	35	47	16	○				28	25	20
M10 500-019	32/19	197	500	19	41	32	39	16	○	○			33	30	25
M10 400-019	45/19	157	400	19	39	45	49	19	○	○			30	28	25
M10 400-023	41/23	157	400	23	55	41	41	23	○	○	○		45	40	35
M10 325-023	55/23	128	325	23	50	55	50	25	○	○			42	38	31
M10 325-024	54/24	128	325	24	50	54	48	24	○	○			42	37	31
M10 325-028	50/28	128	325	28	64	50	41	26	○	○	○		55	46	42
M10 300-030	55/30	118	300	30	68	55	42	29	○	○			60	52	46
M10 250-030	72/30	98	250	30	60	72	50	30	○	○	○		50	45	40
M10 200-040	87/40	79	200	40	80	87	47	38	○	○	○		72	63	56
M10 180-050	91/50	71	180	50	100	91	42	42	○	○	○				
M10 165-045	109/45	65	165	45	90	109	50	45	○	○					
M10 150-060	109/60	59	150	60	120	109	42	50	○	○					
M10 150-065	104/65	59	150	65	130	104	38	49	○	○	○				
M10 120-080	132/80	47	120	80	160	132	39	62	○	○					
M10 100-100	154/100	39	100	100	200	154	37	74	○	○					

### M-12 & M-13

Mesh Code	Mesh Count	Wire Diameter		Mesh Thickness	Mesh Opening	Open Area	Theoretical Deposit	Availability			Thickness of Calendered Mesh				
		/cm	/inch					µm	µm	µm	%	cm³/m²	100cm	122cm	152cm
M13 500-016	35/16	197	500	16	36	35	47	17	○				28	25	20
M12 400-019	45/19	157	400	19	39	45	49	19	○	○			30	28	25
M13 400-019	45/19	157	400	19	39	45	49	19	○	○			30	28	25
M12 400-023	41/23	157	400	23	55	41	41	23	○	○	○		45	40	35
M12 325-023	55/23	128	325	23	50	55	50	25	○	○			42	38	31
M12 325-024	54/24	128	325	24	50	54	48	24	○	○			42	37	31

### M-30

Mesh Code	Mesh Count	Wire Diameter		Mesh Thickness	Mesh Opening	Open Area	Theoretical Deposit	Availability			Thickness of Calendered Mesh				
		/cm	/inch					µm	µm	µm	%	cm³/m²	100cm	122cm	152cm
M30 360-016	55/16	142	360	16	36	55	60	22		○			30	26	22
M30 325-016	62/16	128	325	16	35	62	63	22		○			30	26	22
M30 290-020	68/20	114	290	20	45	68	60	27		○			40	36	30

### W-40 (Tungsten Wire)

Mesh Code	Mesh Count	Wire Diameter		Mesh Thickness	Mesh Opening	Open Area	Theoretical Deposit	Availability			Thickness of Calendered Mesh				
		/cm	/inch					µm	µm	µm	%	cm³/m²	100cm	122cm	152cm
M40 385-015	51/15	152	385	15	35	51	60	21					30	24	21
M40 325-016	68/16	128	325	16	36	62	63	23	○				30	26	22

### HDM (Heavy Deposit Mesh)

Mesh Code	Mesh Count	Wire Diameter		Mesh Thickness	Mesh Opening	Open Area	Theoretical Deposit	Availability			Thickness of Calendered Mesh				
		/cm	/inch					µm	µm	µm	%	cm³/m²	100cm	122cm	152cm
HDM 325-028	128	325	28	76	50	41	31			○					
HDM 250-030	98	250	30	81	72	50	41			○					
HDM 200-040	79	200	40	108	87	47	51			○					

○ : Regular stock item  
 ◐ : Coming soon  
 □ : Produced upon request

Remark: The above catalogue value may be changed for quality improvement without notice.