



**EASTAR**  
www.polyesterscreenmesh.com



# **FILTERING MESH FOR Medical**

- *Transfusion*
- *Diagnostics*
- *Wound Care*



# Filtering Mesh for Medical

*Precious & Highly Functional*

Monofilament Polyester (PET) or nylon yarns are plain woven into mesh fabrics. Then the fabrics are cut into discs, pieces or tubes for medical filtration, diagnostic and wound care applications in medical industries.

We can supply you wide ranges of mesh counts mesh fabrics, pieces, tubes and other structures for medical instrument manufacturers and instrument service company. Specific requirements can be satisfied.

## Features

- Noncytotoxic, non-hemolytic, non-pyrogenic and no sensitization.
- Highly precious and biocompatible.
- High throughput rates and excellent particle retention efficiency.
- Hydrophilic surfaces.
- High filtering efficiency for safely transfusion.
- Non-stick surface.
- Non-shedding performance.
- Can be used combined with a wide range of absorbers and nonwovens.
- Can be customized with customers' specific requirements.

## Applications

### Transfusion.

PET & nylon filter mesh can be made into blood tubing filter to prevent blood clots and particles from entering patients' bloodstream. The blood tubing transfusion filter is high throughput rates and precise mesh opening, which is benefit for the high performance of transfusion sets.



### Diagnostics.

Nylon & polyester filter belt can increase the speed and reliability of diagnostic test strips. The plain weave fabric enhances the test strip performance through increasing the flow rate and decreasing response time.



### Wound Care.

Nylon or polyester filter fabrics can be used as a contact layer for low-pressure wound, as a supporting fabric in skin grafts or as a carrier for drugs and ointments. It has non-stick surfaces and defined pore/mesh size. The monofilament yarn is non-shedding performance.



# TECHNICAL DATA

## Nylon Filter Mesh

### Dimensions

- **Material:** monofilament nylon wire PA6 or PA66.
- **Weaving method:** plain weave or twill weave.
- **Mesh size:** 5 mesh to 236 mesh.
- **Width:** 115/127/145/165 cm and maximum is 365 cm.
- **Length:** 30–100 m and customized lengths.

### Nylon Micron Filter Mesh Technical data

Item	Mesh Count		Thread Diameter	Mesh Opening	Open Area	Fabric Thickness	Weight
	mesh/cm	mesh/inch	µm	µm	%	µm	g/m <sup>2</sup>
NFM12-550	5	12	550	1500	56	850	271
NFM16-400	6	16	400	1267	58	780	208
NFM18-350	7	18	350	1079	57	675	186
NFM20-350	8	20	350	900	52	685	212
NFM24-250	9	24	250	800	58	455	145
NFM25-250	10	25	250	750	52	460	165
NFM30-300	12	30	300	533	41	585	234
NFM30-250	12	30	250	600	50	470	162
NFM35-250	14	35	250	464	34	595	273
NFM40-250	16	40	250	375	36	485	217
NFM40-200	16	40	200	400	44	370	139
NFM50-200	20	50	200	300	36	385	173
NFM50-150	20	50	150	350	49	375	98
NFM60-150	24	60	150	250	40	385	117
NFM70-150	28	70	150	207	44	215	87
NFM76-120	30	76	120	200	39	225	94
NFM80-100	32	80	100	215	47	165	69
NFM90-100	36	90	100	180	42	178	78
NFM100-100	40	100	100	150	36	190	87
NFM110-80	43	110	80	152	43	135	60
NFM120-80	48	120	80	130	38	145	67
NFM140-60	56	140	60	120	44	85	44
NFM150-60	59	150	60	110	42	98	46
NFM160-60	64	160	60	100	37	105	50
NFM180-50	72	180	50	90	41	82	39
NFM200-50	80	200	50	75	36	90	43
NFM230-40	90	230	40	70	40	65	30
NFM250-40	100	250	40	60	36	65	35
NFM280-40	110	280	40	50	30	67	38
NFM305-40	120	305	40	43	25	70	42
NFM330-40	130	330	40	37	23	75	45
NFM355-37	140	355	37	34	20	68	43
NFM400-39	157	400	39	25	15.4	74	52
NFM157-TW	157	400	39	25	15.7	74	52
NFM169-TW	169	430	39	20	11.4	74	56
NFM185-TW	185	470	39	15	7.7	74	61
NFM208-TW	208	530	39	10	4.32	74	69
NFM220-TW	220	560	39	7	2.37	74	73
NFM236-TW	236	600	39	3.5	0.7	74	78

# TECHNICAL DATA

## Polyester Filter Mesh

### Dimensions

- **Material:** 100% monofilament polyester wire.
- **Mesh counts Range:** 10–420 mesh/inch.
- **Weaving method:** plain weave, twill weave, dutch weave.
- **Width:** 115/127/145/165 cm and maximum is 365 cm.
- **Length:** 30–100 m and customized lengths.
- **Color:** white, black, yellow and customized colors.

### Technical Data of Polyester Filter Mesh

Specification	Mesh Count	Thread Diameter	Aperture	Opening	Thickness	Ink Through Volume Theoretical	Tensile Strength
	mesh/inch	micron	micron	%	micron	cm <sup>3</sup> /m <sup>2</sup>	n/cm
10-200	25	200	816	65	440	276	42
10-250	25	250	740	53	465	246	60
12-200	30	200	522	47	485	228	62
16-200	40	200	435	47	420	189	48
20-140	50	140	340	46	280	129	52
20-180	50	180	320	41	350	152	56
24-100	60	100	316	58	190	109	48
24-120	60	120	300	51	210	105	42
32-100	80	100	200	43	160	69	42
36-100	90	100	178	41	175	72	42
39-55	100	55	201	62	100	62	30
39-80	100	80	172	46	142	65	42
43-80	110	80	150	41	130	55	35
48-70	120	70	135	41	115	46	32
53-55	135	55	134	50	105	53	34
54-64	137	64	115	39	102	40	30
59-55	150	55	100	40	93	39	32
64-55	160	55	101	42	105	44	30
64-64	160	64	90	32	106	34	35
72-48	180	48	94	46	80	37	32
72-55	180	55	75	29	92	27	32
77-55	195	55	70	25	88	24	29
80*48	200	48	78	30	84	24	29
80-55	200	55	70	25	88	24	29
90-48	230	48	55	25	78	20	33
100-40	250	40	58	32	65	21	29
110-40	280	40	48	27	65	17	30
120-34	300	34	45	30	55	16	30
120-40	300	40	40	20	55	16	29
140-31	350	31	35	26	48	13	27
140-34	350	34	30	20	55	10	30
150-31	380	31	32	23	47	10	28
150-34	380	34	30	20	69	10	30
165-31	420	31	25	17	49	8	28

# TECHNICAL DATA

## Stainless Steel Filter Mesh

### Dimensions

- **Material:** stainless steel wires.
- **Grade:** 304, 304L, 316, 316L.
- **Weaving method:** plain weave, twill weave and dutch weave.
- **Various custom service.** 30–80 m or customized sizes.
- **Tailored service:** Disc, tube, basket and other special sizes can be customized.

#### Plain Weave Stainless Steel Filter Mesh

Item	Mesh Size	Wire Diameter		Mesh Opening		Open Area
	mesh/inch	inch	mm	inch	mm	%
SSFMP-1	1 x 1	0.08	2.03	0.92	23.37	84.6
SSFMP-2	2 x 2	0.063	1.6	0.437	11.1	76.4
SSFMP-3	3 x 3	0.054	1.37	0.279	7.09	70.1
SSFMP-4-1	4 x 4	0.063	1.6	0.187	4.75	56
SSFMP-4-2	4 x 4	0.047	1.19	0.203	5.16	65.9
SSFMP-5	5 x 5	0.041	1.04	0.159	4.04	63.2
SSFMP-6	6 x 6	0.035	0.89	0.132	3.35	62.7
SSFMP-8	8 x 8	0.028	0.71	0.097	2.46	60.2
SSFMP-10-1	10 x 10	0.025	0.64	0.075	1.91	56.3
SSFMP-10-2	10 x 10	0.02	0.51	0.08	2.03	64
SSFMP-12-1	12 x 12	0.023	0.584	0.06	1.52	51.8
SSFMP-12-2	12 x 12	0.02	0.508	0.063	1.6	57.2
SSFMP-14-1	14 x 14	0.023	0.584	0.048	1.22	45.2
SSFMP-14-2	14 x 14	0.02	0.508	0.051	1.3	51
SSFMP-16	16 x 16	0.018	0.457	0.0445	1.13	50.7
SSFMP-18	18 x 18	0.017	0.432	0.0386	0.98	48.3
SSFMP-20-1	20 x 20	0.02	0.508	0.03	0.76	36
SSFMP-20-2	20 x 20	0.016	0.406	0.034	0.86	46.2
SSFMP-24	24 x 24	0.014	0.356	0.0277	0.7	44.2
SSFMP-30-1	30 x 30	0.013	0.33	0.0203	0.52	37.1
SSFMP-30-2	30 x 30	0.012	0.305	0.0213	0.54	40.8
SSFMP-30-3	30 x 30	0.009	0.229	0.0243	0.62	53.1
SSFMP-35	35 x 35	0.011	0.279	0.0176	0.45	37.9
SSFMP-40	40 x 40	0.01	0.254	0.015	0.38	36
SSFMP-50-1	50 x 50	0.009	0.229	0.011	0.28	30.3
SSFMP-50-2	50 x 50	0.008	0.203	0.012	0.31	36
SSFMP-60-1	60 x 60	0.0075	0.191	0.0092	0.23	30.5
SSFMP-60-2	60 x 60	0.007	0.178	0.0097	0.25	33.9
SSFMP-70	70 x 70	0.0065	0.165	0.0078	0.2	29.8
SSFMP-80-1	80 x 80	0.0065	0.165	0.006	0.15	23
SSFMP-80-2	80 x 80	0.0055	0.14	0.007	0.18	31.4
SSFMP-90	90 x 90	0.005	0.127	0.0061	0.16	30.1
SSFMP-100-1	100 x 100	0.0045	0.114	0.0055	0.14	30.3
SSFMP-100-2	100 x 100	0.004	0.102	0.006	0.15	36
SSFMP-100-3	100 x 100	0.0035	0.089	0.0065	0.17	42.3
SSFMP-110	110 x 110	0.004	0.1016	0.0051	0.1295	30.7
SSFMP-120	120 x 120	0.0037	0.094	0.0064	0.1168	30.7
SSFMP-150	150 x 150	0.0026	0.066	0.0041	0.1041	37.4
SSFMP-160	160 x 160	0.0025	0.0635	0.0038	0.0965	36.4
SSFMP-180	180 x 180	0.0023	0.0584	0.0033	0.0838	34.7
SSFMP-200	200 x 200	0.0021	0.0533	0.0029	0.0737	33.6
SSFMP-250	250 x 250	0.0016	0.0406	0.0024	0.061	36
SSFMP-270	270 x 270	0.0016	0.0406	0.0021	0.0533	32.2
SSFMP-300	300 x 300	0.0015	0.0381	0.0018	0.0457	29.7
SSFMP-325	325 x 325	0.0014	0.0356	0.0017	0.0432	30
SSFMP-400	400 x 400	0.001	0.0254	0.0015	0.37	36
SSFMP-500	500 x 500	0.001	0.0254	0.001	0.0254	25
SSFMP-635	635 x 635	0.0008	0.0203	0.0008	0.0203	25

#### Plain Dutch Weave Stainless Steel Filter Mesh

Item	Mesh Size (Warp x Weft)	Wire Diameter	Mesh Opening
	mm	mm	mm
SSFMPD-32#	8 x 62	0.63 x 0.45	300
SSFMPD-40#	10 x 79	0.50 x 0.355	250
SSFMPD-48#	12 x 64	0.58 x 0.40	280
SSFMPD-55#	14 x 88	0.40 x 0.30	180
SSFMPD-76#	19 x 140	0.315 x 0.20	140
SSFMPD-80#	20 x 300	0.35 x 0.20	-
SSFMPD-95#	24 x 110	0.355 x 0.25	120
SSFMPD-100#	25 x 140	0.28 x 0.20	100
SSFMPD-120#	30 x 150	0.25 x 0.18	80
SSFMPD-140#	35 x 175	0.224 x 0.16	71
SSFMPD-160#	40 x 200	0.20 x 0.14	60
SSFMPD-180#	45 x 250	0.16 x 0.112	56
SSFMPD-200#	50 x 250	0.14 x 0.11	53
SSFMPD-220#	55.5 x 280	0.14 x 0.10	50
SSFMPD-240#	65 x 330	0.11 x 0.08	36
SSFMPD-280#(1)	70 x 350	0.11 x 0.08	35
SSFMPD-280#(2)	70 x 385	0.11 x 0.07	32
SSFMPD-300#	78 x 700	0.11 x 0.08	30
SSFMPD-315#(1)	80 x 400	0.10 x 0.065	40
SSFMPD-315#(2)	80 x 600	0.10 x 0.06	-
SSFMPD-315#(3)	80 x 800	0.15 x 0.04	-
SSFMPD-320#	81 x 780	0.10 x 0.07	30
SSFMPD-354#	90 x 550	0.12 x 0.05	-

#### Twill Dutch Weave Stainless Steel Filter Mesh

Item	Mesh Size (Warp x Weft)	Wire Diameter	Mesh Opening
	mm	mm	mm
SSFMTD-360#	91 x 787	0.10 x 0.07	25
SSFMTD-400#	101 x 900	0.10 x 0.063	20
SSFMTD-472#	120 x 400	0.10 x 0.075	-
SSFMTD-500#	127 x 1100	0.07 x 0.05	17
SSFMTD-630#	160 x 1500	0.063 x 0.04	15
SSFMTD-650#(1)	165 x 400	0.071 x 0.06	-
SSFMTD-650#(2)	165 x 600	0.071 x 0.05	-
SSFMTD-650#(3)	165 x 800	0.071 x 0.05	25
SSFMTD-650#(4)	165 x 1100	0.071 x 0.045	-
SSFMTD-650#(5)	165 x 1400	0.071 x 0.04	16



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