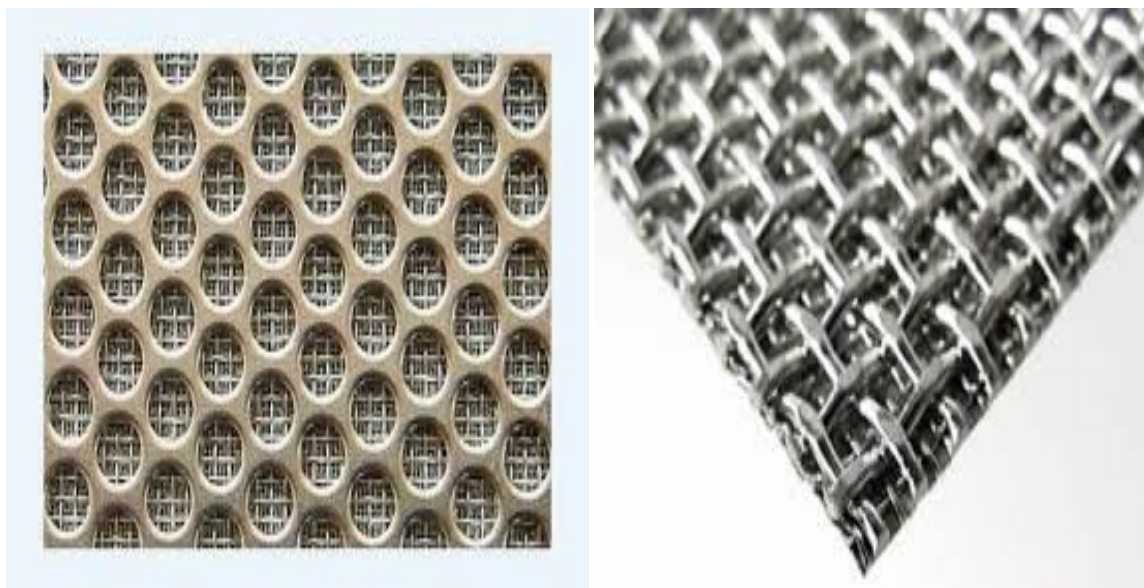


Sintered Wire Mesh with Perforated Metal

Sintered wire mesh with perforated metal is produced for an extensive range of micron rating, mechanical characteristics and construction materials. The standard Mesh metal is produced by using high performance super alloys, stainless steel and nickel. We offer custom weaving on an extensive range of alloys and layering patterns to deliver a product that fulfils your specification requirements.

Sintered Wire with Perforated Metal Characteristics

1. High Permeability
2. Good tensile strength
3. Available in single wrap designs to multi-layer structures in pleated productions to optimize the available space
4. Mesh is diffusion bonded to provide enhanced service level and security of the hole shape and specification
5. Available in the widest range of pore sizes
6. Construction materials- Inconel, Incoloy, Hastelloy, Monel, Nickel, Titanium, Aluminum, Stainless Steels, Duplex steels



Sintered perforated metal offers several benefits as compare to traditional filter elements such as great mechanical strength and uniform porosity at the high precision level. They are manufactured in the diverse shape and size ranges. Filtration rating of 0.5 to 100 microns is received with excellent efficiency about 99.9%. The micron rating is tested in our domestic Bubble Point Testing facility to guarantee the results.

Specification

IPA	Perforation	Centers	Holes per sq. Inch	Open area
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100	.020 in	.043 in	625	20 %
101	.023 in	.0415 in	576	24 %
102	.027 in	.050 in	400	23 %
103	.032 in	.055 in	324	26 %
104	.040 in	.066 in	335	30 %
105	.045 in	.066 in	334	37 %
106	1/16 in	1/8 in	74	23 %
107	5/64 in	7/64 in	97	46 %
108	5/64 in	1/8 in	74	36 %
109	3/32 in	5/32 in	47	32 %
110	3/32 in	3/16 in	33	23 %
111	3/32 in	¼ in	19	12 %
112	1/10 in	5/32 in	47	36 %
113	1/8 in	3/16 in	33	40 %
114	1/8 in	5/32 in	24	29 %
115	1/8 in	7/32 in	19	23 %
116	5/32 in	¼ in	19	46 %
117	5/32 in	7/32 in	24	36 %
118	3/16 in	¼ in	19	51 %
119	3/16 in	¼ in	19	33 %
120	¼ in	5/16 in	12	58 %
121	¼ in	5/16 in	12	40 %
122	¼ in	3/8 in	8	30 %
123	¼1 in	7/16 in	5	23 %
124	3/8 in	½ in	5	51 %
125	3/8 in	9/16 in	4	40 %
126	3/8 in	5/8 in	3	33 %
127	7/16 in	5/8 in	3	45 %
128	½ in	11/16 in	2	47 %
129	9/16 in	¾ in	2	51 %
130	5/8 in	13/16 in	2	53 %
131	¾ in	1 in	1	51 %

Hexagonal pattern staggered centers						
Perforation size		Staggered centers		Bar width	Approx open area %	Material thickness
Inches	Decimal equivalent	Inches	60o decimal equivalent			
9/32 in	.2812	13/32 in	.4062	.1250	47.91 %	8 ga
11/32 in	.3437	15/32 in	.4687	.1250	53.77 %	10 ga
13/32 in	.4062	35/64 in	.5469	.1406	55.17 %	10 ga
7/16 in	.4375	19/32 in	.5937	.1562	54.30 %	3/16
7/16 in	.4375	¼ in	.7500	.3125	33.40 %	3/16
15/32 in	.4687	5/8 in	.8250	.1562	56.23 %	8 ga
½ in	.5000	11/16 in	.6875	.1875	52.88 %	¼
9/16 in	.5625	¾ in	.7500	.1875	56.25 %	1/4
5/8 in	.6250	13/16 in	.8125	.2500	59.16 %	¼
11/16 in	.6875	13/16 in	.8125	.1875	48 %	¼
13/16 in	.8125	7/8 in	.8750	.1875	59.16 %	¼
13/16 in	.8125	1 in	1	.1875	51.73 %	3/16

15/16 in	.9375	1 in	1.0625	.2500	56 %	¼
15/16 in	.9375	1 1/16 in	1.1875	.2500	58.47 %	¼
1 in	1	1 3/16 in	1.3125	.3750	62.31 %	3/8
1 1/8 in	1.1250	1 5/16 in	1.2500	.2500	51.02 %	5/16
1 5/16 in	1.3125	1 ¼ in	1.4062	.2612	64 %	3/8
1 3/8 in	1.3750	1 13/32 in	1.5625	.2500	70.56 %	3/8
1 ½ in	1.5000	1 9/16 in	1.7500	.3750	61.73 %	½
1 5/8 in	1.6250	1 ¾ in	1.8750	.3750	64 %	3/8
1 7/8 in	1.8750	1 7/8 in	2	.3750	66.01 %	½
1 15/16 in	1.9375	2 5/16 in	2.3125	.3750	70.19 %	3/8

Hexagonal pattern single punch

Perforation size inches	Perforation size decimal equivalent	Material thickness
1 ¼ in	1.7500	¾ in
2 in	2	¾ in
2 1/16 in	2.0625	3/8 in
2 1/8 in	2.1250	¾ in
2 3/16 in	2.1875	½ in
2 ¼ in	2.2500	½ in
2 5/16 in	2.3125	½ in
2 3/8 in	2.3750	¾ in
2 ½ in	2.5000	¾ in
2 ¾ in	2.7500	3/4 in
2 7/8 in	2.8750	¾ in
3 in	3.000	5/8 in
3 1/8 in	3.1250	5/8 in
3 ¼ in	3.2500	5/8 in
3 3/8 in	3.3750	¾ in
3 ½ in	3.5000	½ in
3 5/16 in	3.3125	½ in
3 9/16 in	3.5625	½ in
3 ¾ in	3.7500	3/8 in
3 7/8 in	3.8750	5/8 in
4 3/8 in	4.3750	5/8 in