

## U.S.A. STANDARD SIEVES ASTM SPECIFICATION E-11

### Nominal Dimensions, Permissible Variations for Wirecloth of Standard Test Sieves (U.S.A.) Standard Series

Sieve Designation		Nominal Sieve	Permissible	Opening	Maximum	Nominal Wire
Standard (b)	Alternative	Opening, in. (see c below)	Variation of Average Opening from the Standard Sieve Designation	Dimension or Not More Than 5% of the Openings	Individual Opening	Diameter (mm) see a below
(1)	(2)	(3)	(4)	(5)	(6)	(7)
125 mm	5"	5	±3.70 mm	130.0 mm	130.9 mm	8.00
106 mm	4.24"	4.24	±3.20 mm	110.2 mm	111.1 mm	6.30
100 mm (d)	4"	4	±3.00 mm	104.0 mm	104.8 mm	6.30
90 mm	3 1/2"	3.5	±2.70 mm	93.6 mm	94.4 mm	6.30
75 mm	3"	3	±2.20 mm	78.1 mm	78.7 mm	6.30
63 mm	2 1/2"	2.5	±1.90 mm	65.6 mm	66.2 mm	5.60
53 mm	2.12"	2.12	±1.60 mm	55.2 mm	55.7 mm	5.00
50 mm (d)	2"	2	±1.50 mm	52.1 mm	52.6 mm	5.00
45 mm	1 3/4"	1.75	±1.40 mm	46.9 mm	47.4 mm	4.50
37.5 mm	1 1/2"	1.5	±1.10 mm	39.1 mm	39.5 mm	4.50
31.5 mm	1 1/4"	1.25	±1.00 mm	32.9 mm	33.2 mm	4.00
26.5 mm	1.06"	1.06	±.800 mm	27.7 mm	28.0 mm	3.55
25.0 mm	1.00"	1	±.800 mm	26.1 mm	26.4 mm	3.55
22.4 mm	7/8"	0.875	±.700 mm	23.4 mm	23.7 mm	3.55
19.0 mm	3/4"	0.750	±.600 mm	19.9 mm	20.1 mm	3.15
16.0 mm	5/8"	0.625	±.500 mm	16.7 mm	17.0 mm	3.15
13.2 mm	.530"	0.530	±.410 mm	13.83 mm	14.05 mm	2.80
12.5 mm (d)	1/2"	0.500	±.390 mm	13.10 mm	13.31 mm	2.50
11.2 mm	7/16"	0.438	±.350 mm	11.75 mm	11.94 mm	2.50
9.5 mm	3/8"	0.375	±.300 mm	9.97 mm	10.16 mm	2.24
8.0 mm	5/16"	0.312	±.250 mm	8.41 mm	8.58 mm	2.00
6.7 mm	.265"	0.265	±.210 mm	7.05 mm	7.20 mm	1.80
6.3 mm (d)	1/4"	0.250	±.200 mm	6.64 mm	6.78 mm	1.80
5.6 mm	NO. 3 1/2(e)	0.223	±.180 mm	5.90 mm	6.04 mm	1.60
4.75 mm	NO. 4	0.187	±.150 mm	5.02 mm	5.14 mm	1.60
4.0 mm	NO. 5	0.157	±.130 mm	4.23 mm	4.35 mm	1.40
3.35 mm	NO. 6	0.132	±.110 mm	3.55 mm	3.66 mm	1.25
2.8 mm	NO. 7	0.110	±.095 mm	2.975 mm	3.070 mm	1.12
2.36 mm	NO. 8	0.0937	±.080 mm	2.515 mm	2.600 mm	1.00
2.0 mm	NO. 10	0.0787	±.070 mm	2.135 mm	2.215 mm	.900
1.7 mm	NO. 12	0.0661	±.060 mm	1.820 mm	1.890 mm	.800
1.4 mm	NO. 14	0.0555	±.050 mm	1.505 mm	1.565 mm	.710
1.18 mm	NO. 16	0.0469	±.045 mm	1.270 mm	1.330 mm	.630
1.0 mm	NO. 18	0.0394	±.040 mm	1.080 mm	1.135 mm	.560
850 µm (f)	NO. 20	0.0331	±35 µm	925 µm	970 µm	.500
710 µm	NO. 25	0.0278	±30 µm	775 µm	815 µm	.450
600 µm	NO. 30	0.0234	±25 µm	660 µm	695 µm	.400
500 µm	NO. 35	0.0197	±20 µm	550 µm	585 µm	.315

425 µm	NO. 40	0.0165	±19 µm	471 µm	502 µm	.280
355 µm	NO. 45	0.0139	±16 µm	396 µm	425 µm	.224
300 µm	NO. 50	0.0117	±14 µm	337 µm	363 µm	.200
250 µm	NO. 60	0.0098	±12 µm	283 µm	306 µm	.160
212 µm	NO. 70	0.0083	±10 µm	242 µm	263 µm	.140
180 µm	NO. 80	0.0070	±9 µm	207 µm	227 µm	.125
150 µm	NO. 100	0.0059	±8 µm	174 µm	192 µm	.100
125 µm	NO. 120	0.0049	±7 µm	147 µm	163 µm	.090
106 µm	NO. 140	0.0041	±6 µm	126 µm	141 µm	.071
90 µm	NO. 170	0.0035	±5 µm	108 µm	122 µm	.063
75 µm	NO. 200	0.0029	±5 µm	91 µm	103 µm	.050
63 µm	NO. 230	0.0025	±4 µm	77 µm	89 µm	.045
53 µm	NO. 270	0.0021	±4 µm	66 µm	76 µm	.036
45 µm	NO. 325	0.0017	±3 µm	57 µm	66 µm	.032
38 µm	NO. 400	0.0015	±3 µm	48 µm	57 µm	.030
32 µm	NO. 450	0.0012	±3 µm	42 µm	50 µm	.028
25 µm (d)	NO. 500	0.0010	±3 µm	34 µm	41 µm	.025
20 µm (d)	NO. 635	0.0008	±3 µm	29 µm	35 µm	.020

a) The average diameter of the wires in the x and y direction, taken separately, of any wire cloth shall not deviate from the nominal values by more than ±15%.

b) These standard designations correspond to the values for test sieve openings recommended by the International Organization for Standardization (ISO) Geneva, Switzerland, except where noted.

c) Only approximately equivalent to the metric values in column 1.

d) These sieves are not in the standard series but they have been included because they are in common usage.

e) These numbers (3 1/2 to 635) are the approximate number of openings per linear inch, but it is preferred that the sieve be identified by the standard designation in millimeters or micrometers.

f) 1,000 µm=1 mm

# U.S. Standard Test Sieves | 8" (203.2mm) Diameter

Dimensions: Half Height = 1' Depth to Cloth Full Height: = 2' Depth to Cloth

U.S. Standard Mesh Size	Brass Frame / Brass Wire Cloth			Brass Frame / Stainless Steel Wire Cloth			Stainless Steel Frame / Stainless Steel Wire Cloth		
	Half Ht.	Full Ht.	Price	Half Ht.	Full Ht.	Price	Half Ht.	Full Ht.	Price
5"				5"BS8H	5"BS8F		5"SS8H	5"SS8F	
4.24"				4.24"BS8H	4.24"BS8F		4.24"SS8H	4.24"SS8F	
4"				4"BS8H	4"BS8F		4"SS8H	4"SS8F	
3-1/2"				3-1/2"BS8H	3-1/2"BS8F		3-1/2"SS8H	3-1/2"SS8F	
3"				3"BS8H	3"BS8F		3"SS8H	3"SS8F	
2-1/2"				2-1/2"BS8H	2-1/2"BS8F		2-1/2"SS8H	2-1/2"SS8F	
2.12"				2.12"BS8H	2.12"BS8F		2.12"SS8H	2.12"SS8F	
2"				2"BS8H	2"BS8F		2"SS8H	2"SS8F	
1-3/4"				1-3/4"BS8H	1-3/4"BS8F		1-3/4"SS8H	1-3/4"SS8F	
1-1/2"				1-1/2"BS8H	1-1/2"BS8F		1-1/2"SS8H	1-1/2"SS8F	
1-1/4"				1-1/4"BS8H	1-1/4"BS8F		1-1/4"SS8H	1-1/4"SS8F	
1.06"				1.06"BS8H	1.06"BS8F		1.06"SS8H	1.06"SS8F	
1.00"				1.00"BS8H	1.00"BS8F		1.00"SS8H	1.00"SS8F	
7/8"				7/8"BS8H	7/8"BS8F		7/8"SS8H	7/8"SS8F	
3/4"				3/4"BS8H	3/4"BS8F		3/4"SS8H	3/4"SS8F	
5/8"				5/8"BS8H	5/8"BS8F		5/8"SS8H	5/8"SS8F	
.530"				.530"BS8H	.530"BS8F		.530"SS8H	.530"SS8F	
1/2"				1/2"BS8H	1/2"BS8F		1/2"SS8H	1/2"SS8F	
7/16"				7/16"BS8H	7/16"BS8F		7/16"SS8H	7/16"SS8F	
3/8"				3/8"BS8H	3/8"BS8F		3/8"SS8H	3/8"SS8F	
5/16"				5/16"BS8H	5/16"BS8F		5/16"SS8H	5/16"SS8F	
.265"				.265"BS8H	.265"BS8F		.265"SS8H	.265"SS8F	
1/4"				1/4"BS8H	1/4"BS8F		1/4"SS8H	1/4"SS8F	
#3.5				#3.5BS8H	#3.5BS8F		#3.5SS8H	#3.5SS8F	
#4				#4BS8H	#4BS8F		#4SS8H	#4SS8F	
#5				#5BS8H	#5BS8F		#5SS8H	#5SS8F	
#6				#6BS8H	#6BS8F		#6SS8H	#6SS8F	
*1/8"				1/8"BS8H	1/8"BS8F		1/8"SS8H	1/8"SS8F	
#7				#7BS8H	#7BS8F		#7SS8H	#7SS8F	
#8	#8BB8H	#8BB8F		#8BS8H	#8BS8F		#8SS8H	#8SS8F	
#10	#10BB8H	#10BB8F		#10BS8H	#10BS8F		#10SS8H	#10SS8F	
#12	#12BB8H	#12BB8F		#12BS8H	#12BS8F		#12SS8H	#12SS8F	
#14	#14BB8H	#14BB8F		#14BS8H	#14BS8F		#14SS8H	#14SS8F	
#16	#16BB8H	#16BB8F		#16BS8H	#16BS8F		#16SS8H	#16SS8F	
#18	#18BB8H	#18BB8F		#18BS8H	#18BS8F		#18SS8H	#18SS8F	
#20	#20BB8H	#20BB8F		#20BS8H	#20BS8F		#20SS8H	#20SS8F	
#25	#25BB8H	#25BB8F		#25BS8H	#25BS8F		#25SS8H	#25SS8F	
#30	#30BB8H	#30BB8F		#30BS8H	#30BS8F		#30SS8H	#30SS8F	
#35	#35BB8H	#35BB8F		#35BS8H	#35BS8F		#35SS8H	#35SS8F	
#40	#40BB8H	#40BB8F		#40BS8H	#40BS8F		#40SS8H	#40SS8F	
#45	#45BB8H	#45BB8F		#45BS8H	#45BS8F		#45SS8H	#45SS8F	
#50	#50BB8H	#50BB8F		#50BS8H	#50BS8F		#50SS8H	#50SS8F	
#60	#60BB8H	#60BB8F		#60BS8H	#60BS8F		#60SS8H	#60SS8F	
#70	#70BB8H	#70BB8F		#70BS8H	#70BS8F		#70SS8H	#70SS8F	
#80	#80BB8H	#80BB8F		#80BS8H	#80BS8F		#80SS8H	#80SS8F	
#100	#100BB8H	#100BB8F		#100BS8H	#100BS8F		#100SS8H	#100SS8F	
#120	#120BB8H	#120BB8F		#120BS8H	#120BS8F		#120SS8H	#120SS8F	
#140	#140BB8H	#140BB8F		#140BS8H	#140BS8F		#140SS8H	#140SS8F	
#170	#170BB8H	#170BB8F		#170BS8H	#170BS8F		#170SS8H	#170SS8F	
#200	#200BB8H	#200BB8F		#200BS8H	#200BS8F		#200SS8H	#200SS8F	
#230	#230BB8H	#230BB8F		#230BS8H	#230BS8F		#230SS8H	#230SS8F	
#270	#270BB8H	#270BB8F		#270BS8H	#270BS8F		#270SS8H	#270SS8F	
#325	#325BB8H	#325BB8F		#325BS8H	#325BS8F		#325SS8H	#325SS8F	
#400	#400BB8H	#400BB8F		#400BS8H	#400BS8F		#400SS8H	#400SS8F	
#450				#450BS8H	#450BS8F		#450SS8H	#450SS8F	
#500				#500BS8H	#500BS8F		#500SS8H	#500SS8F	
#635				#635BS8H	#635BS8F		#635SS8H	#635SS8F	

\*1/8" Currently not part of the ASTM E-11 Specifications.

Part No.	Brass Pans & Covers	Price	Part No.	Stainless Steel Pans and Covers	Price
PB8F	Pan, 8" Full Height		PS8F	Pan, 8" Full Height	
PB8FX	Pan, 8" Full Height with Extended Rim		PS8FX	Pan, 8" Full Height with Extended Rim	
PB8H	Pan, 8" Half Height		PS8H	Pan, 8" Half Height	
PB8HX	Pan, 8" Half Height with Extended Rim		PS8HX	Pan, 8" Half Height with Extended Rim	
CB8	Cover, 8" without Lifting Ring		CS8	Cover, 8" without Lifting Ring	
CB8w/r	Cover, 8" with Lifting Ring		CS8w/r	Cover, 8" with Lifting Ring	