

### What to look for in a precision test sieve

Sieves can often look alike, but take a closer look and you will find they are not all the same. In fact there can be some very important differences that may affect the results, performance or life of the sieve. The illustration shows some of the important features of an Endecotts sieve and gives a good idea of what to look for whenever you specify or re-order.

Endecotts test sieves are of the highest quality and are designed for accurate and efficient particle analysis.



**Certificate of Compliance**  
Supplied with every test sieve



### Sieve diameters and frame materials

Diameter	Full Height	Half Height	Frame Material
3"	1 ¼"	1"	Stainless Steel / Brass
8"	2"	1"	Stainless Steel / Brass
12"	3"	1"	Stainless Steel / Brass
18"	3 ½"	-	Sainless Steel
38 mm	19 mm	-	Stainless Steel / Brass
100 mm	40 mm	20 mm	Stainless Steel / Brass
150 mm	38 mm	-	Sainless Steel
200 mm	50 mm	25 mm	Stainless Steel / Brass
250 mm	60 mm	-	Sainless Steel
300 mm	75 mm	40 mm	Stainless Steel / Brass
315 mm	75 mm	-	Stainless Steel
350 mm	60 mm	-	Stainless Steel
400 mm	65 mm	-	Stainless Steel
450 mm	100 mm	-	Stainless Steel

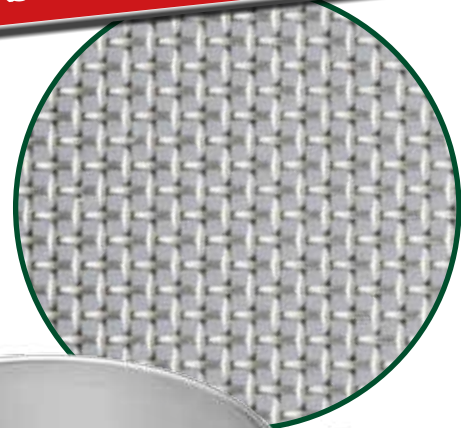
### Endecotts' Finest: Woven Wire Mesh Sieves

Endecotts woven wire mesh sieves are the most widely used test sieves for all types of laboratory sampling and particle size analysis. They are made with only the highest quality materials and are available in diameter sizes of 38, 100, 150, 200, 250, 300, 315, 350, 400 and 450 mm or in 3, 8, 12 or 18 inches.

They can be supplied with aperture sizes ranging from 125 mm down to 20 microns in full or half height versions. Woven wire mesh sieves are available in frame materials of either stainless steel or brass (315, 350, 400 and 450 mm only available in stainless steel).

#### Advantages

- Precision frame (ensures consistent nestability)
- Precise aperture (in accordance with ISO 3310, ASTM or other specifications)
- Available to every national and international standard
- Natural fillet (free flowing of sample)
- Totally sealed (no crevice to lose material)
- Evenly tensioned mesh ensures accurate analysis
- Safe edge (big radius makes it comfortable to handle)
- Serial number (ensures full traceability)



### Endecotts Standard Woven Wire Mesh Sieves are available in these sizes

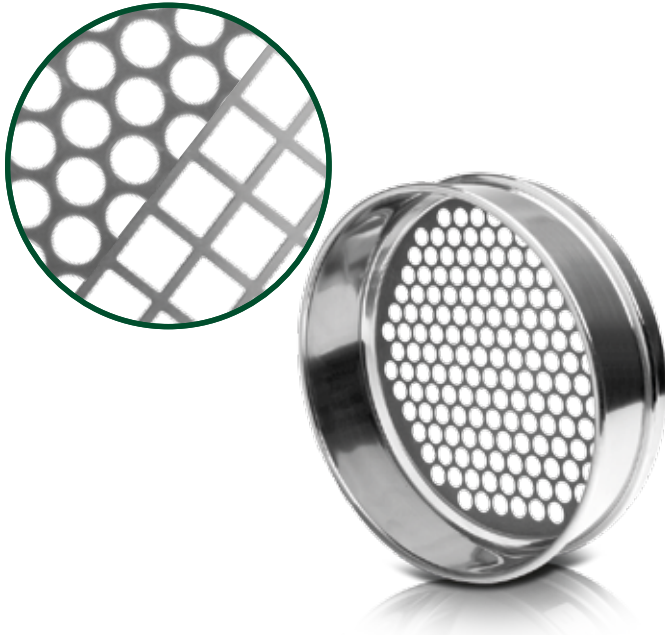
#### International Test Sieve Series

ISO 3310-1 Nominal Aperture Sizes					
125.00 mm	26.50 mm	5.60 mm	1.18 mm	250 µm	53 µm
112.00 mm	25.00 mm	5.00 mm	1.12 mm	224 µm	50 µm
106.00 mm	22.40 mm	4.75 mm	1.00 mm	212 µm	45 µm
100.00 mm	20.00 mm	4.50 mm	900 µm	200 µm	40 µm
90.00 mm	19.00 mm	4.00 mm	850 µm	180 µm	38 µm
80.00 mm	18.00 mm	3.55 mm	800 µm	160 µm	36 µm
75.00 mm	16.00 mm	3.35 mm	710 µm	150 µm	32 µm
71.00 mm	14.00 mm	3.15 mm	630 µm	140 µm	25 µm
63.00 mm	13.20 mm	2.80 mm	600 µm	125 µm	20 µm
56.00 mm	12.50 mm	2.50 mm	560 µm	112 µm	
53.00 mm	11.20 mm	2.36 mm	500 µm	106 µm	
50.00 mm	10.00 mm	2.24 mm	450 µm	100 µm	
45.00 mm	9.50 mm	2.00 mm	425 µm	90 µm	
40.00 mm	9.00 mm	1.80 mm	400 µm	80 µm	
37.50 mm	8.00 mm	1.70 mm	355 µm	75 µm	
35.50 mm	7.10 mm	1.60 mm	315 µm	71 µm	
31.50 mm	6.70 mm	1.40 mm	300 µm	63 µm	
28.00 mm	6.30 mm	1.25 mm	280 µm	56 µm	

#### American Standard Sieve Series

ASTM E11 Sieve Designation					
Standard	Altern.	Standard	Altern.	Standard	Altern.
125.00 mm	5.00	9.50 mm	3/8	425 µm	No.40
106.00 mm	4.24	8.00 mm	5/16	355 µm	No.45
100.00 mm	4	6.70 mm	0.265	300 µm	No.50
90.00 mm	3 1/2	6.30 mm	1/4	250 µm	No.60
75.00 mm	3	5.60 mm	No. 3 1/2	212 µm	No.70
63.00 mm	2 1/2	4.75 mm	No. 4	180 µm	No.80
53.00 mm	2.12	4.00 mm	No. 5	150 µm	No.100
50.00 mm	2	3.35 mm	No. 6	125 µm	No.120
45.00 mm	1 3/4	2.80 mm	No. 7	106 µm	No.140
37.50 mm	1 1/2	2.36 mm	No. 8	90 µm	No.170
31.50 mm	1 1/4	2.00 mm	No.10	75 µm	No.200
26.50 mm	1.06	1.70 mm	No.12	63 µm	No.230
25.00 mm	1	1.40 mm	No.14	53 µm	No.270
22.40 mm	7/8	1.18 mm	No.16	45 µm	No.325
19.00 mm	3/4	1.00 mm	No.18	38 µm	No.400
16.00 mm	5/8	850 µm	No.20	32 µm	No. 450
13.20 mm	0.530	710 µm	No.25	25 µm	No. 500
12.50 mm	1/2	600 µm	No.30	20 µm	No. 635
11.20 mm	7/16	500 µm	No.35		

### Perforated Plate Sieves



Endecotts manufacture a wide range of perforated plate sieves for the many industries that require them. These are available in diameter sizes of 200, 300, 315, 350, 400 and 450 mm. Aperture sizes range from 125 mm to 4 mm in square hole and 125 mm to 1 mm in round hole. Perforated plate sieves can be supplied in frame materials of brass or stainless steel. They are manufactured to the highest engineering standards to ensure quality and accuracy. Perforated plate sieves are available to every national and international standard. Other materials and sizes can be produced to order.

### Microplate Sieves



For very fine particle analysis Endecotts produce a range of microplate sieves made from electro-formed nickel plate in stainless steel frames of 100 mm or 200 mm diameter. Available with unique self clearing apertures sizes from 75 to 5 microns. Microplate sieves are supplied with either round or square holes.

Other aperture sizes, sieve diameters and sieve depths can be supplied as required. It is recommended that microplate sieves are used in conjunction with a liquid medium to assist the passage of extremely fine particles through the apertures. In certain cases where this is not possible it is often found that a compatible shaker can speed up the analysis, while maintaining a high degree of accuracy.

Endecotts standard lids & receivers can be used with the microplate sieves.

#### Perforated Plate Series ISO 3310-2 / BS410-2

##### Nominal Aperture Sizes Round & Square Holes [mm]

125.00	71.00	37.50	20.00	11.20	6.30
112.00	63.00	35.50	19.00	10.00	5.60
106.00	56.00	31.50	18.00	9.50	5.00
100.00	53.00	28.00	16.00	9.00	4.75
90.00	50.00	26.50	14.00	8.00	4.50
80.00	45.00	25.00	13.20	7.10	4.00
75.00	40.00	22.40	12.50	6.70	

##### Nominal Aperture Sizes Round Hole Only [mm]

3.55	2.80	2.24	1.70	1.25	1.00
3.35	2.50	2.00	1.60	1.18	
3.15	2.36	1.80	1.40	1.12	

#### Microplate Sieves ISO 3310-3

##### Nominal Aperture Sizes for 100 mm Diameter Sieves [µm]

75	40	20	5
60	30	15	
50	25	10	

##### Nominal Aperture Sizes for 200 mm Diameter Sieves [µm]

200	160	15	5
190	150	12	
180	25	10	
170	20	8	

## Specials

### Half Height Sieves

Where smaller quantities of sample are being analysed half height sieves are often used. These are available in diameters of 100, 200 or 300 mm and 3", 8" or 12" with the complete range of woven wire mesh or perforated plate sieving media. Other height options are also available.



### Extra Depth Sieves

Extensively used by the construction and cement industries. These extra deep sieves are available with a diameter size of 450 mm and a depth of 300 mm. Made from steel with woven wire mesh or perforated plate sieving mediums.



### Air Jet Sieves

The "Premium" air jet sieves are specially designed for the use with the new Endecotts Air Sizer 200 and air jet sieving machines of other brands. They are only available in 8" diameter stainless steel frames.

The "Standard" air jet sieves are available in 200 mm or 8" diameter in brass or stainless steel frames.

Both styles of air jet sieves are available in an extensive range of aperture sizes.



### Wet Washing Sieves

Extremely useful sieves where samples need to be separated with the help of wet washing. Available in 8 inch diameter by 4 or 8 inches deep or their metric equivalent with brass or stainless steel frames. A complete range of aperture sizes with optional support medium for fine mesh.



### Lids & Receivers

Lids, receiving pans and intermediate receiving pans are available in brass or stainless steel with the following diameters: 38, 100, 150, 200, 250, 300, 315, 400 and 450 mm as well as 3, 8, 12 or 18 inches. Half height receivers are also available.



### Coffee Sieves



These sieves are specially designed for the coffee industry and used for grading coffee beans. They are manufactured with brass or stainless steel frames of 8" or 200 mm and fitted with round hole, stainless steel perforated plate. A complete range is available in standard measurements. Other specifications and designations are also available.

### Diamond Sieves



Endecotts Diamond Sieves are high precision measuring instruments specially manufactured to meet the strict requirements of the diamond industry. They are produced from stainless steel and offer a rapid and extremely accurate method of sizing.

Fixed plate sieves are available in stainless steel bodies of 200 mm or 8" in full or half height. These can be nested for ease of use.

Fixed plates are available in a range of aperture sizes.

#### Coffee Sieves

64th inch	Classification	Central America and Mexico	Columbia	Africa and India
20/64	Very large	Superior	Supremo	AA
19.5/64	Very large	Superior	Supremo	AA
19/64	Very large	Superior	Supremo	AA
18.5/64	Large	Superior	Supremo	AA
18/64	Large	Superior	Supremo	A
17/64	Large	Superior	Excelso	A
16/64	Medium	Segundas	Excelso	B
15/64	Medium	Segundas	Excelso	B
14/64	Small	Terceras	Excelso	C
13/64	Shells	Caracol	Excelso	PB
12/64	Shells	Caracol	Excelso	PB
11/64	Shells	Caracolli	Excelso	PB
10/64	Shells	Caracolli	Excelso	PB
9/64	Shells	Caracolillo	Excelso	PB
8/64	Shells	Caracolillo	Excelso	PB

#### Diamond Sieves

Plate Size	Hole Diameter [mm]	Plate Size	Hole Diameter [mm]
1	1.092	11	3.454
2	1.321	12	4.089
3	1.473	13	4.521
4	1.783	14	4.750
5	1.829	15	5.410
6	2.159	17	5.740
7	2.464	19	6.350
8	2.515	21	7.925
9	2.845	23	10.312
10	3.277		

### Grid Sieves



Used to determine the flakiness index of aggregates. Endecotts grid sieves are manufactured to fully conform to the requirements of EN 933-3. The 300 x 300 mm sieves are made entirely of stainless steel and are strong, durable and anti-corrosive. They can be supplied as a single item or as a set. The receiver is ordered separately.

### Grain Sieves



Endecotts Grain Sieves are specially manufactured to meet the requirements of ISO 5223.

They are used by Government Intervention Boards and similar organisations worldwide for testing grains and cereals. They are available in 200 mm diameter brass or stainless steel frames in full or half height depths with stainless steel slotted plate. Slot sizes as table below.

#### Grid Sieves EN 933

Slot Width [mm]	Particle Size Fraction [mm]
50.0	100 - 80
40.0	80 - 63
31.5	63 - 50
25.0	50 - 40
20.0	40.0 - 31.5
16.0	31.5 - 25.0
12.5	25 - 20
10.0	20 - 16
8.0	16.0 - 12.5
6.3	12.5 - 10.0
5.0	10 - 8
4.0	8.0 - 6.3
3.15	6.3 - 5.0
2.5	5 - 4

#### Grain Sieves ISO 5223

Slot Size [mm]	Sieve Height	Plate Material
3.55 x 20.0	Full or Half	Stainless Steel
2.50 x 20.0	Full or Half	Stainless Steel
2.24 x 20.0	Full or Half	Stainless Steel
2.20 x 20.0	Full or Half	Stainless Steel
2.00 x 20.0	Full or Half	Stainless Steel
1.90 x 20.0	Full or Half	Stainless Steel
1.80 x 20.0	Full or Half	Stainless Steel
1.70 x 20.0	Full or Half	Stainless Steel
1.00 x 20.0	Full or Half	Stainless Steel

Slot widths of 2.25 mm are available on request