



# WALCOOM

Walcoom Corporation



# TEST SIEVE

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## Common Test Sieve



Common test sieves can be divided into three types: woven mesh test sieve, perforated test sieve and grid sieve. Woven mesh test sieve is used for precise classification in research laboratory and metallurgy or construction industries with the precise opening. Perforated test sieve has two shapes of openings: square and round. Grid sieve is made of frame and bar, and it is used for flakiness testing of aggregates.



## Feature

- High strength, not easy to be damaged.
- Lightweight structure, easy to use and transport.
- Anti-corrosion.
- Fine sieve frame with no leak.
- Strong and durable with longer lifespan.

## Specification

- **Frame material:** stainless steel, brass.
- **Mesh material:** stainless steel wire.
- **Standard:** ASTM E323-11, ASTM E11-16, E161-12, ISO 565-1990, ISO 3310-1, ISO 3310-2, ISO 3310-3, ISO 2591-1, GB/T 6003.
- **Type:** woven mesh test sieve, perforated test sieve, grid sieve.



Woven mesh test sieve



Perforated test sieve



Grid sieve

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## ■ Woven mesh test sieve

- ◆ Diameter size (mm): 38, 100, 150, 200, 250, 300, 315, 350, 400, 450.
- ◆ Aperture size: from 20 µm to 125 mm.

## ■ Perforated test sieve

- ◆ Diameter size (mm): 200, 300, 315, 350, 400, 450.
- ◆ Aperture size
  - ▲ Square: from 4 mm to 125 mm.

▲ Round: from 1 mm to 125 mm.

## ■ Grid sieve

- ◆ Slot material: stainless steel.
- ◆ Slot width: 2.5–50 mm.
- ◆ Height: 75 mm.

◆ Type of mesh: bar.

◆ Dimension: 300 mm × 300 mm square.

**Table 1: Detailed Specification of Grid Sieve**

Item	Slot Width (mm)	Particle Size Fraction (mm)	Net Weight Unpacked (kg)
GST-01	2.5	4–5	3.2
GST-02	3.15	5–6.3	3.1
GST-03	4	6.3–8	2.9
GST-04	5	8–10	2.8
GST-05	6.3	10–12.5	2.6
GST-06	8	12.5–16	2.5
GST-07	10	16–20	2.3
GST-08	12.5	20–25	2.2
GST-09	16	25–31.5	2.1
GST-10	20	31.5–40	2
GST-11	25	40–50	1.9
GST-12	31.5	50–63	1.8
GST-13	40	63–80	1.7
GST-14	50	80–100	1.6

## Application

Common test sieves are mainly used in the following places:

- Garden.
- Laboratory.
- Metallurgy industry.
- Construction industry.
- Home.

## Special Test Sieve



There are four types of special test sieve in Walcoom: microplate sieve, air jet sieve, wet washing sieve, flakiness sieve. The aperture of microplate sieve is round or square, the role of it is to help very small particles through the aperture. Air jet sieve is widely used in the jet system. Wet washing sieve is used to wet all sorts of materials, which allows the fines to be washed without losing. Flakiness sieve is made of heavy duty steel, its role is to determine whether the aggregated particles are flaky.

## Feature

- Glazed and wearable surface.
- Anti-corrosion.
- Safe edge to prevent people from scratching fingers.
- Easy to clean
- Strong and durable, long lifespan.



## Specification

- **Material:** stainless steel, brass, heavy duty steel, nickel plated.
- **Surface treatment:** galvanized, electrostatic paint.
- **Standard:** ASTM E323-11, ASTM E11-16, E161-12, ISO 565-1990, ISO 3310-1, ISO 3310-2, ISO 3310-3, ISO 2591-1, GB/T 6003.
- **Different type**



Microplate sieve



Air jet sieve



Wet washing sieve

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Flakiness sieve



Extra high test sieve



Half height test sieve

**Table 2: Specification of Microplate Sieve**

Aperture (μm)	5, 15, 20, 25, 30, 40, 50, 60, 75
Diameter	75 mm, 100 mm, 200 mm, 300 mm
Hole Shape	round, square
Frame Thickness	0.6 mm, 0.7 mm
Height	30 mm, 35 mm, 50 mm, 60 mm

■ **Air jet sieve**

- ◆ Sieve diameter: 200 mm, 203 mm.
- ◆ Type of mesh: woven wire.
- ◆ Mesh size: 20 μm–4 mm.

■ **Wet washing sieve**

- ◆ Type of mesh: woven wire.
- ◆ Sieve diameter: 200 mm.
- ◆ Sieve height: 100 mm, 200 mm.

■ **Flakiness sieve**

- ◆ Complete set: 7.
- ◆ Weight: 15kg.

**Table 3: Specification of Flakiness Sieve**

Item	Slot Width (mm)	Dimension (mm)	Passing (mm)	Retained (mm)	Weight (kg)
FST-01	4.9	320 × 195 × 30	10	6.3	1.6
FST-02	7.2	340 × 215 × 40	14	10	1.7
FST-03	10.2	360 × 235 × 50	20	14	1.8
FST-04	14.4	380 × 255 × 60	28	20	2.0
FST-05	19.7	400 × 275 × 70	37.5	28	2.1
FST-06	26.3	420 × 295 × 80	50	37.5	2.6
FST-07	33.9	470 × 330 × 100	63	50	3.1

## Application

Each kind of special test sieve has its own role, such as:

- Microplate sieve is used to help very small particles through the aperture.
- Air jet sieve is widely used in the jet system.
- Wet washing sieve is used to wet all sorts of materials, which allows the fines to be washed without losing.
- Flakiness sieve is mainly used to determine whether the aggregated particles are flaky.

## Laboratory Test Sieve



Laboratory test sieve, just as its name implies, it is widely used in the laboratory, except for that, it also can be used in the quality inspection department. Laboratory test sieve has high precision, so it becomes a precision measuring instruments for particle size analysis.

### Feature

- High precision, accurate mesh.
- High temperature resistance, anti acid and alkali.
- Suitable for all kinds of powders and particles.
- Easy to clean and maintain.
- Durable with longer lifespan.



### Specification

- **Material:** stainless steel 304, 304L, 316, 316L, brass.
- **Out diameter (mm):** 75, 100, 200, 300, 350, 400.
- **Height:** 3.5–10 cm.
- **Technical:** plain woven, perforated holes.
- **Hole shape:** square or round.
- **Standard:** ASTM E323-11, ASTM E11-16, E161-12, ISO 565-1990, ISO 3310-1, ISO 3310-2, ISO 3310-3, ISO 2591-1, GB/T 6003.

### Application

Laboratory test sieves are widely used as precision measuring instrument in particle size analysis in laboratory and quality inspection department.

## Sieve Shaker



Sieve shaker is a high efficiency instrument for sieving. It feature of high frequency makes it become an ideal choice for fine particle separation. The sieve shaker combines transverse and up-down and tilt motion to make the test material shake in the sieving orbital. This fast and effective movement utilizes the mesh area and ensures the sieving and separation of the test materials. In addition, see-through cylinder is helpful for observing.

### Feature

- Low noise.
- Sieving can be done in a dry and humid environment.
- Even in a short time, there is an excellent sieving efficiency.
- The sample can be moved evenly on the sieving surface.
- Easy operation, free maintenance.



### Sieve shaker type

- **3 inch sieve shaker:** 3 inch sieve shaker is suitable for cosmetics, pharmaceuticals, chemicals, foods and other fine powders. Its small size, small footprint and quiet operation are ideal for the separation of dry powder samples.
- **8 inch sieve shaker:** 8 inch sieve shaker is an economical and affordable sieve shaker, and the performance is superior to other equipment of the same price. This sieve shaker can accommodate 6 full-height sieves and pan or 13 half-height sieves and pan.
- **Heavy duty sieve shaker:** Heavy duty sieve shaker can accommodate 10 full height 2" deep, 20 half height 1" deep plus pan and cover. This equipment is made of heavy duty steel without belts and chains, so makes the sieve shaker more durable.

### Application

Sieve shaker can be used to sieve grain, fiber, flat crystals, plants and so on in research and quality inspection department.

# TEST SLEVE

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