Flakiness Bar Sieve Set

LT-A0012/S | LT-A0012 - LT-A0025 | EN 933-3

14 apertures • Parallel stainless steel bars • Manual operation



2.5-50 mm

BAR APERTURE RANGE

14 sieves

INDIVIDUAL SIEVE OPTIONS

Aggregate • Asphalt • Concrete • Particle shape quality control

Photograph and Bar Sieve Components

Parallel bars, slots and rigid metal frame

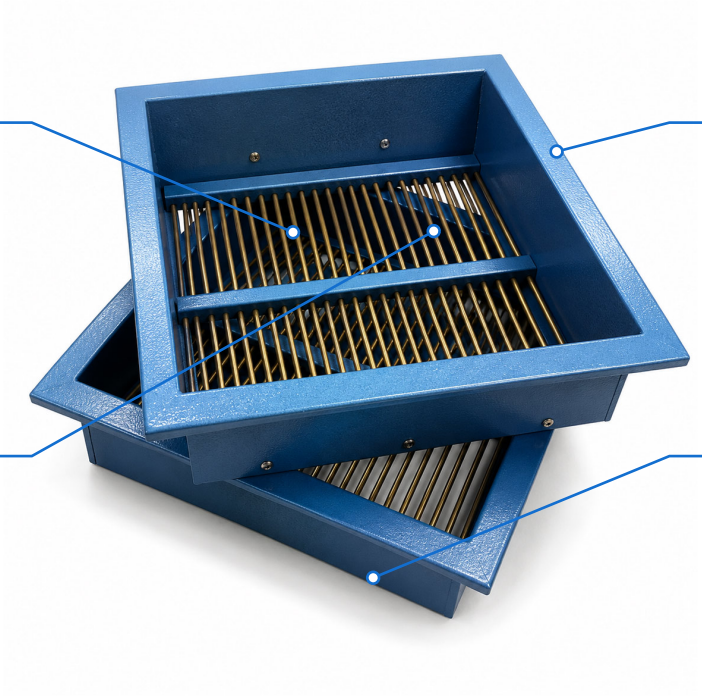
Bar sieves classify coarse aggregate by thickness after preliminary separation into size fractions. The set provides 14 apertures from 2.5 to 50 mm. Test each fraction on its specified bar aperture under EN 933-3.

PARALLEL BARS

Approximately Ø5 mm stainless steel bars form the thickness-classification surface.

BAR SLOTS

Particles passing the specified aperture contribute to the flaky-particle mass.



RIGID FRAME

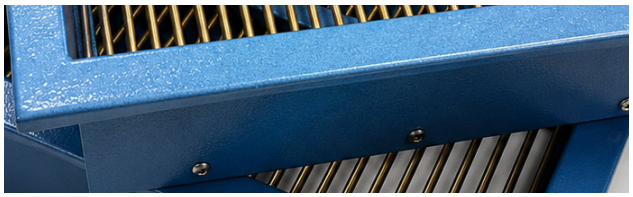
The metal body supports bar positioning and maintains aperture geometry.

COATED BODY

A powder-coated finish supports corrosion resistance of the metal frame.



Parallel bars and thickness-classification slots

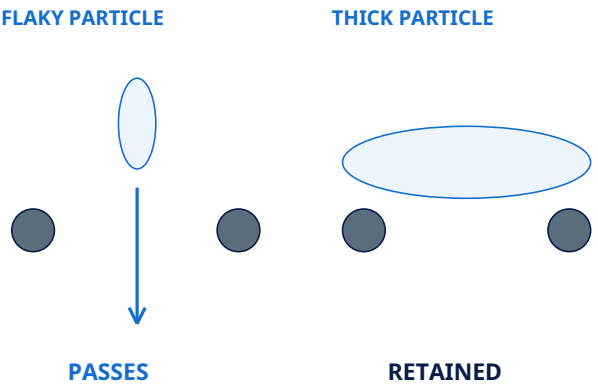


Metal frame and protective coated surface

Thickness Classification and Flakiness Index

Pre-sieve • Select bar aperture • Weigh passing mass • Calculate FI

THICKNESS SEPARATION IN ONE FRACTION



FLAKY PARTICLES PASS BETWEEN THE BARS

PRE-SIEVING • FRACTION • CORRECT APERTURE

mf: FLAKY PASSING MASS • M: TEST MASS

Flakiness index FI (%) = 100 × mf / M

DRY MASSES • REPRESENTATIVE DIAGRAM • NOT TO SCALE

Pre-sieve and Fractionate

Separate the dry specimen into size fractions using square-aperture sieves. Establish test mass.

Select the Bar Sieve

Test each fraction at its specified bar aperture. Collect passing flaky particles separately.

Weigh and Calculate FI

Sum dry passing masses. Divide by total test mass and calculate the FI percentage.

Flakiness index is the total dry mass passing the appropriate bar sieves divided by the dry mass of the evaluated fractions. The EN 933-3 procedure does not apply to particles smaller than 4 mm or larger than 100 mm.

Individual Sieves and Complete Set

LT-A0012 - LT-A0025 includes 14 apertures. Each individual sieve measures 34 × 32 × 8 cm and weighs approximately 4 kg.

LT-A0012/S combines the aperture range into a complete set measuring 34 × 32 × 104 cm and weighing approximately 52 kg. No electrical connection is required.

Fraction Selection and Routine Checks

First separate the specimen into the specified size fractions. Use the corresponding bar aperture for each fraction rather than testing the entire specimen on one sieve.

Keep bars and slots clean. Check for bending, damage and blockage. Collect passing particles without loss and record dry masses and specimen ID.

LT-A0012/S / LT-A0012 - LT-A0025

Sieve Apertures and Technical Specifications

14 individual models • Complete set • Dimensions and weights

Product Code	Aperture (mm)	Dimensions (cm)	Weight (kg)
LT-A0012/S	Complete set	34 × 32 × 104	52
LT-A0012	2.5	34 × 32 × 8	4
LT-A0013	3.15	34 × 32 × 8	4
LT-A0014	4	34 × 32 × 8	4
LT-A0015	5	34 × 32 × 8	4
LT-A0016	6.3	34 × 32 × 8	4
LT-A0017	8	34 × 32 × 8	4
LT-A0018	10	34 × 32 × 8	4
LT-A0019	12.5	34 × 32 × 8	4
LT-A0020	16	34 × 32 × 8	4
LT-A0021	20	34 × 32 × 8	4
LT-A0022	25	34 × 32 × 8	4
LT-A0023	31.5	34 × 32 × 8	4
LT-A0024	40	34 × 32 × 8	4
LT-A0025	50	34 × 32 × 8	4

Match the Bar Aperture to the Specimen Size Fraction

The 2.5-50 mm values describe bar apertures. Match each pre-sieved particle fraction to its specified aperture; calculate flakiness index from the dry passing masses.

From Coarse Aggregate to Flakiness Index

01
Fractionate
Separate using square-aperture sieves.

02
Select
Choose the bar aperture for the fraction.

03
Weigh
Weigh the dry mass of passing flaky particles.

04
Calculate
Record FI percentage and test information.

Product Page | liyatest.com.tr/en/urun/grid-sieve/