

Flakiness and Elongation

Flakiness Index Sieve Set

UTA-0410

When an aggregate particle has a thickness less than 0.6m of its mean sieve size, it is considered flaky. The aggregate to be classified is separated into seven sieve fractions from 6.3 to 63 mm and each fraction is examined separately. Each sieve is made from heavy gauge steel and is coated with electrostatic paint. The dimensions of each sieve comply with the relevant International Standard. The accuracy of the slot size is better than 0.1 mm.

UTA-0410 Flakiness Index Sieve Set consists of 7 sieves.

For sample preparation 6.3, 10, 14, 20, 28, 37.5, 50 and 63 mm aperture sizes test sieves should be ordered separately.



Grid Sieve Set

UTA-0420

The Grid Sieve Set is used to determine the flakiness index of the aggregate.

All the sieves include an electrostatically painted frame and stainless steel bars with a 5 mm diameter.

For sample preparation 4.5, 6.3, 8, 10, 12.5, 16, 20, 25, 31.5, 40, 50, 63, 80 and 100 mm aperture sizes test sieves should be ordered separately.



Technical Specifications

Flakiness Index Sieve Set

Sieve	Slot Size (w x l) (mm)	Weight (kg)	Dimensions (mm)
UTA-0411	4.9x30	1.5	300x220x80
UTA-0412	7.2x40	1.6	320x240x80
UTA-0413	10.2x50	1.9	300x220x80
UTA-0414	14.4x60	2	360x260x80
UTA-0415	19.7x80	2.2	390x280x80
UTA-0416	26.3x90	2.6	420x300x80
UTA-0417	33.9x100	2.9	470x320x80

Grid Sieve Set

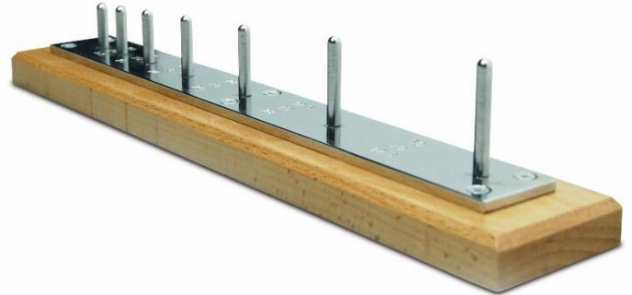
Sieve	Aperture (mm)	Weight (kg)	Dimensions (mm)
UTA-0421	2.5	3.3	340x320x80
UTA-0422	3.15	3.3	340x320x80
UTA-0423	4	3.8	340x320x80
UTA-0424	5	3.8	340x320x80
UTA-0425	6.3	3.7	340x320x80
UTA-0426	8	3.6	340x320x80
UTA-0427	10	3.4	340x320x80
UTA-0428	12.5	3.2	340x320x80
UTA-0429	16	4	340x320x80
UTA-0430	20	3.2	340x320x80
UTA-0431	25	3.2	340x320x80
UTA-0432	31.5	2.9	340x320x80
UTA-0433	40	2.7	340x320x80
UTA-0434	50	2.5	340x320x80

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Length Gauge

UTA-0455

The Length Gauge (Elongation Index BS), is used to measure the elongation index of aggregates. When the length of the particle is more than 1.8 of the midsize of the sieve fraction, it is considered elongated. The aggregate to be classified is separated into six sieve fractions from 6.3 to 50 mm and each fraction is examined separately.



Thickness Gauge

UTA-0450

The Thickness Gauge is used to determine if the aggregate particles are to be considered as flaky, i.e. their thickness is less than 0.6 of their nominal size.

The aggregate to be classified is separated into seven sieve fractions from 6.3 to 63 mm, and each fraction is examined separately.

Slot sizes are:

- 4.9 x 30 mm
- 7.2 x 40 mm
- 10.2 x 50 mm
- 14.4 x 60 mm
- 19.7 x 80 mm
- 26.3 x 90 mm
- 33.9 x 100 mm



About PCTE

PCTE have over 30 years' experience in the measurement and testing of construction materials. PCTE can provide more than just the equipment, they can provide expert training. PCTE have a service centre in Sydney in which they can provide calibration, repairs and warranty repairs.

Other Equipment

PCTE supply three main ranges: NDT, Lab and Geotech Instrumentation.

NDT includes: Rebound Hammers, Covermeters, Ultrasonics, GPR, Corrosion Testing, Coating Testing and Foundation Testing

Lab includes equipment for: Concrete, Cement, Aggregate, Soil, Asphalt and Metal

Geotech Instrumentation includes: Strain Gauges, Piezometers, Inclometers, Extensometers, Tiltmeters, Load Cells and Dataloggers