

## Abrasion, Wear and Fragmentation

The resistance to abrasion, wear and polishing are critical for the performance of aggregate that will be used in paving and road base applications. The following systems offer a number of testing methods for the characterization of aggregates along with tiling and paving products.

### Los Angeles Abrasion Machine

UTA-0600

The Los Angeles Abrasion Machine is used to evaluate resistance to fragmentation and wearing due to friction. Aggregate sample is tumbled inside of the drum for a fixed number of revolutions.

This system has the following features:

- Digital counter and auto stop after testing
- Optional soundproofing cabinet
- Safety stop on door opening
- 31 - 33 r.p.m
- 711 mm Internal Diameter
- 508 mm length



### Micro Deval Apparatus

UTA-0620

For determining the resistance to wear of aggregates. The Micro Deval Testing Machine. The test tumbles aggregate in a drum with steel abrasive balls and water.

Supplied with:

- Ø200 x 154 mm drums
- Optional Ø200 x 400 mm drum
- Digital counter and auto stop after testing
- Safety cover
- Supplied with 25 kg of 10mm steel spheres



### Nordic Abrasion Machine

UTA-0750

Developed to test the resistance of aggregates to wear by abrasion from studded tires. A similar test to the Micro Deval test but with larger diameter balls.

- Internal Diameter 206.5 mm, Internal Length 335 mm, wall thickness 6mm, rotation at 90 rpm
- Digital counter and auto stop after testing
- Safety cover
- Supplied with 5 kg 15 mm steel spheres



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### Accelerated Polishing Machine

UTA-0810

Simulates the polishing action of vehicle tires on road surface. Consisting of a road wheel rotating at 320 rpm, abrasives are fed to contact point with test sample for a three hour coarse and three hour fine polishing cycle.

- Supplied with Corn Emery and Flour Emery for coarse and fine testing
- Specimen molding equipment included
- Control stone and Friction test reference stone must be ordered separately

### Skid Resistance and Friction Tester

UTA-0830

Portable Skid resistance testing system. Suitable for site and laboratory testing and for testing polished specimens from the accelerated polishing machine.



- Secondary scale for Polished Stone Value testing
- Provided with 3 rubber sliders for onsite use, including conformity certificate

### Wide Wheel Abrasion Testing Machine

UTA-0610

Test system for determining the resistance to abrasion for paving products including tiles, concrete pavers and natural stone pavers.



### Böhme Abrasion Testing Machine

UTA-0615

Test system for determining resistance to abrasion for concrete and natural stone pavers.



## 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