

ABRASION TESTING—SURFACE

Standardised Abrasion Tester for the Determination of Glazed Ceramic Surface Resistance.

Designed to carry out tests in accordance with the P.E.I. (wet) method of European Norm EN154 and ISO 10545 part 7. The test involves exposing the glazed material to the abrasive action of a charge comprising balls of different diameters with the addition of corundum and distilled water (P.E.I. method). The different abrasion stages are achieved by programming the machine at an increasingly higher number of revs, with fixed instrument speed as required by the standard. Later on, a visual analysis of the test result will classify it in the various

abrasion groups envisaged by the method.

Electric board coming with inverter for a precise regulation of rpm and fast set up during calibration phase.

The machines are supplied with 1 PEI abrasive charge and 0.5kg of corundum for each rotating head along with a sealing gaskets. (Each abrasive charge can be used 10-15 times depending on the average number of revolutions made during the cycle.)

(For 230V, single phase, 50/60Hz supply, 0.5kW).

PRODUCT CODES

Model PEI/300/D, with 3 rotating heads (above right)	01CI0104/1
Model PEI/100/D, with 1 rotating head (right)	01CI0103/2
PEI complete abrasive charge (0.2kg)	01CI0101/A
FEP A 80 Corundum (1 kg)	01CI0101/B
Pack of 10 calibration float glasses 105 x 105 x 6mm	01CI0101/1

PEI-BOX VIEWING CABINET

The PEI-BOX cabinet has been especially designed to check the level of abrasion on glazed ceramic tiles in accordance with ISO 10545 part 7 and ASTM C1027- 99 (2004).

The inside of the instrument is painted in “neutral grey” as required by the standards. To carry out the test, place the PEI-BOX instrument in a dark room, and place the abraded tile of 100x100mm in the centre surrounded by 8 unabraded tiles of the same dimensions. Write on the marked face the r.p.m. corresponding to the abrasion made.

Observing the tile specimen from a distance of 2 m and a height of 1,65 m it is possible to see the difference between the tile abraded and the other unabraded tiles.

To ensure that the test is true, the witness of at least three observers is required

Overall Dimensions: 700 x 650 x 630mm

LED Illumination with colour temperature of 6000K

Product Code:

PEI-BOX Cabinet	01CI0170/1
Luxmeter 0—50,000 Lux	GT0120



Art. 01CI0103/2



Art. 01CI0104/1



Art. 01CI0170/1

ABRASION TESTING—DEEP

Standardized Depth Abrasion Tester, Model AP/18.

The AP/18 is an instrument for the depth abrasion determination of unglazed ceramic tiles, to meet the standards of ISO 10545-6. The test consists of exposing the sample to the abrasive action of a steel disk rotating against the surface while corundum is fed from the fixed hopper at a given rate between the disk and the sample surface. At the end of the cycle the trace chord length is measured, and the volume of material removed is calculated, giving the comparison parameter for test classification.

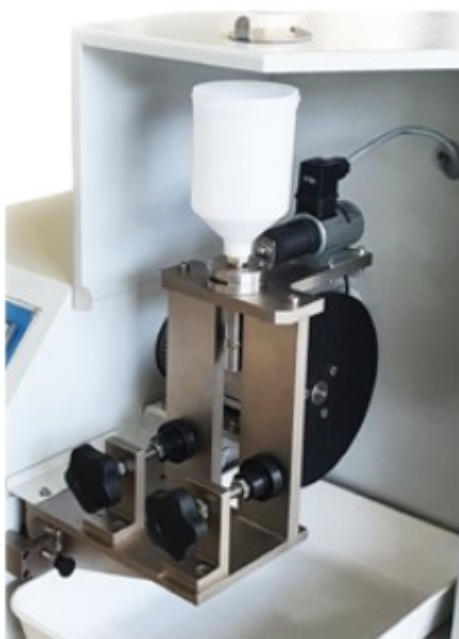
The latter will act as the benchmark parameter for test classification.

General characteristics

- Epoxy powder painted sheet metal structure.
 - Vibration-damping feet.
 - 600 cc corundum container.
 - Corundum fall system operated automatically.
 - The steady pressure of the test sample on the abrasion disk is achieved by a system of counterweights.
 - Automatic test cycle.
 - Programming by means of an electronic control panel with LCD display.
 - Safety front door with microswitch.
 - Illuminated work chamber
 - Supplied with 2 kg of FEPA 80 corundum.
- 230V single-phase 50/60 Hz.
Overall dimensions: 61 x 65 x 74 cm.
Net weight: 52 kg.



Art. 01CI0109



Product Code.

Model AP/18 Depth Abrasion Tester.
01CI0109

Standardised replacement disc, net weight 2.5kg
01CI0109/A

FEPA 80 corundum 1kg
01CI0101/B

Calibration tile, (transparent fused silica, size 100mm x 100mm x 5mm)
01CI0107/B