Wide Wheel Abrasion Natural Stone and Concrete

LT-A0058 | Surface wear testing by the wide-wheel method

Digital revolution counter • Automatic stop • Secure specimen holding



75 rpm

ABRASION WHEEL ROTATION SPEED

190 kg

MACHINE WEIGHT

EN 1338 • EN 1341 • EN 1342 • EN 1343 • EN 14157

LT-A0058

Photograph and Machine Components

Abrasive hopper, steel wheel, controls and lower collection section

LT-A0058 evaluates surface abrasion resistance of natural stone and concrete products. A steel wheel and abrasive powder produce a controlled wear groove. The counter stops the machine automatically at the target revolutions.

CONTROL PANEL

The digital revolution counter and operating controls manage the test cycle.

ABRASIVE POWDER HOPPER

The upper hopper feeds abrasive into the working zone between wheel and specimen.

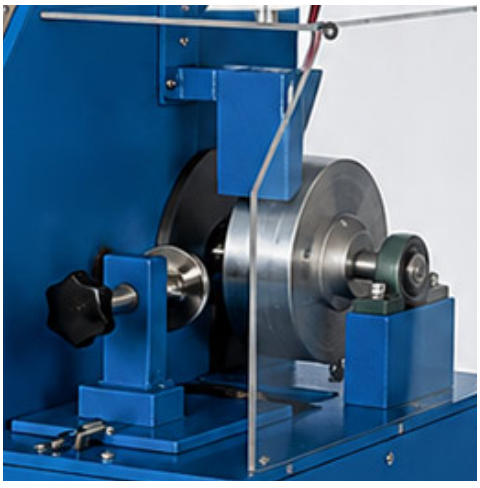


LOWER COLLECTION SECTION

The enclosed lower section facilitates collection of used abrasive powder and test residues.

WHEEL AND SPECIMEN HOLDER

The steel wheel rotates against the sample. The holder maintains specimen position throughout testing.



Steel wheel, specimen holder and working zone



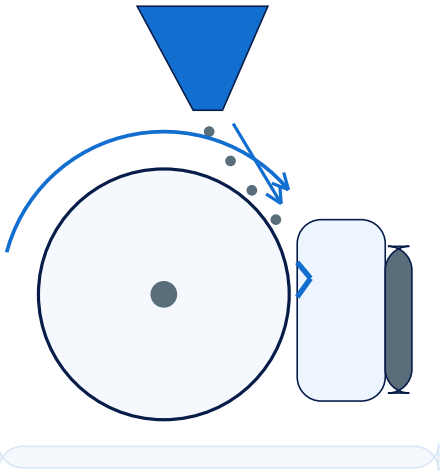
Digital counter and control panel detail

LT-A0058

Surface Abrasion with a Wide Wheel

Secure specimen • Feed abrasive • Rotate wheel • Measure the groove

STEEL WHEEL + ABRASIVE + SPECIMEN



75 rpm

CONTROLLED ABRASIVE FEED

SPECIMEN: SUITABLE TEST SURFACE

RESULT: DIMENSIONS OF THE WEAR GROOVE

OPERATING PRINCIPLE • REPRESENTATIVE SIDE VIEW • NOT TO SCALE

Secure the Specimen

Prepare the piece according to the method. Clean the test surface and secure it opposite the wheel.

Feed Abrasive and Rotate

Add the prescribed abrasive to the hopper. Set target revolutions; the machine stops at completion.

Measure the Wear Groove

Remove the specimen and clean the groove. Apply the measurements and calculation required by the method.

The rotating wheel and abrasive particles remove material from the specimen surface. The holder keeps the contact zone stable. Assess groove dimensions after the cycle according to the method; under the same conditions, lower material loss indicates greater abrasion resistance.

Natural Stone and Concrete Products

The wide-wheel method evaluates surface wear of products such as natural stone and concrete paving blocks. EN 14157 covers methods for natural stone abrasion resistance.

EN 1338 concerns concrete paving blocks; EN 1341, EN 1342 and EN 1343 concern natural stone products for external paving. Match the abrasion method to the specimen and relevant product standard.

Calibration Marble and Abrasive

LT-A0058/2 Boulonnaise marble is available for checking the abrasion system. Verify with the reference specimen under the conditions required by the method.

LT-A0058/1 abrasive powder is the 50 kg pack; LT-A0058/3 is the 1 kg option. Check feed and specimen position, then clean the wheel, holder and lower collection section after testing.

LT-A0058

Technical Specifications and Accessori

LT-A0058 • Wide wheel, abrasive powder and calibration marble

Machine Specification	Value / Description
Product Code	LT-A0058
Test System	Wide steel wheel and abrasive powder
Wheel Rotation Speed	75 rpm
Wheel Width	70 mm
Wheel Hardness	203–245 HB
Revolution Control	Digital counter / stop at preset revolutions
Specimen Position	Secure holder for controlled contact
Overall Dimensions	65 × 70 × 200 cm
Approximate Machine Weight	190 kg
Power Supply	380 V, 50–60 Hz, three phases

Accessory Code	Description / Option
LT-A0058/1	Abrasion powder / 50 kg
LT-A0058/3	Abrasion powder / 1 kg
LT-A0058/2	Calibration marble / Boulonnaise

Check the Reference Specimen and Test Conditions

Verify the system with Boulonnaise marble according to the method. Check specimen position, abrasive feed and total revolutions to maintain consistent test conditions.

From Specimen to Surface Abrasion Result

01
Prepare
Prepare, clean and secure the test specimen.

02
Feed
Add the prescribed powder and check its feed.

03
Abrade
Set target revolutions and start the cycle.

04
Measure
Clean and measure the groove; calculate results.

Product Page | liyatest.com.tr/en/urun/abrasion-testing-machine-natural-stones-and-concrete-tiles/