AGGREGATE > ABRASION RESISTANCE

LOS ANGELES ABRASION TESTING MACHINE

Code : R191



- The Los Angeles Abrasion Tester is used to evaluate the resistance of coarse aggregates to abrasion and impact, simulating real-world conditions that aggregates face in pavements and other structures.
- This apparatus assesses the degradation of aggregates through a combination of abrasion, impact, and grinding actions within a rotating steel drum containing a specified number of steel spheres.
- The test provides an indicator of the relative quality or competence of various sources of aggregate having similar mineral compositions, aiding in material selection for construction projects.
- The machine features a robust steel cylinder with a wall thickness of 12 mm, an internal diameter of 711 mm, and a length of 508 mm, ensuring durability and compliance with international standards.
- An automatic digital counter is integrated to display the number of drum revolutions and automatically stop the motor after the required number of revolutions, enhancing test accuracy and repeatability.
- Abrasive Charges and Noise Reduction and Safety Cabinet should be ordered separately.

STANDARDS

ASTM C131 • ASTM C535 • EN 1097-2 • EN 12697-17 • EN 12697-43 • AASHTO T96

TECHNICAL SPECIFICATIONS

- Drum Internal Diameter: 711 mm
- Drum Internal Length: 508 mm
- Wall Thickness: 12 mm
- Rotation Speed: 31–33 rpm
- Digital Counter: Displays drum revolutions; auto-stop feature
- Power Supply: 220 – 240 V / 50 or 60 Hz

SUPPLIED WITH

- Collecting tray for post-test material recovery

ORDERING INFORMATION

Item Name	Item Code
ABRASIVE CHARGES SET for R191 - ASTM	R191P001H
ABRASIVE CHARGES SET for R191 - EN	R191P002H
NOISE-REDUCTION and SAFETY CABINET for R191	R191P003H
ABRASIVE CHARGE - Ø 46.0 mm / 400 g	R191P004H
ABRASIVE CHARGE - Ø 47.6 mm / 440 g	R191P005H
PULLEYS SET for R191 (60 Hz Model)	R191P006H
PULLEYS SET for R191 (50 Hz Model)	R191P007H
LOS ANGELES ABRASION TESTER [60 Hz]	R191X00XK
LOS ANGELES ABRASION TESTER [50 Hz]	R191X00XT