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Product Name :

Los Angeles Abrasion Testing Machine

Product Code :

SLE/AG/03



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Description :

Los Angeles Abrasion Testing Machine (Product Code: SLE/AG/03) is a motor-driven rotating drum used to measure the resistance of coarse aggregate to abrasion and impact in highway and civil engineering laboratories. Road research labs, colleges and quarries run it with a charge of twelve hardened steel balls of about 48 mm, the drum turning at 30–33 rpm through a heavy reduction gear. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM engineering lab equipment manufacturer, at its own factory in Ambala, India.

Specifications

Parameter	Detail
Drum	Hollow cylinder mounted horizontally on a sturdy frame, running onball bearings
Charging opening	Opening closed with a dust-tight cover for charging and discharging the drum
Internal shelf	Detachable shelf extending throughout the inside length of the drum; catches the abrasive charge and stops it falling on the cover
Drive	Electric motor through a heavy reduction gear
Drum speed	30–33 rpm
Revolution counter	Fitted to the frame
Abrasive charge	Set of twelve hardened steel balls, approximately 48 mm dia.
Collection tray	Supplied, for collecting the material at the end of the test
Electrical supply	440 V, 3 phase, 50 cycles, A.C.
Product code	SLE/AG/03
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Los Angeles Abrasion Machine Used For?

A dried, graded sample is weighed and loaded through the charging opening together with the number of steel balls your test method specifies for that grading. With the dust-tight cover closed, the drum runs for the required number of revolutions, read from the counter. On every turn the internal shelf lifts the stones and balls and drops them across the drum, combining impact with grinding. The contents are then emptied into the collection tray, the balls removed and the material sieved; the loss in mass as a percentage of the starting mass is reported as the abrasion value.

Because the test gives a single, easily compared number, the machine sits alongside other test and measurement instruments in India's highway and materials labs as a routine acceptance check for road and concrete aggregate. Keep the shelf fixings tight, check that the cover closes dust-

OEM

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