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Product Name :

Aggregate Impact Tester

Product Code :

SLE/CE/94



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Description :

Aggregate Impact Tester (Product Code: SLE/CE/94) is a drop-hammer apparatus used to determine the aggregate impact value, a relative measure of how well road and concrete aggregate resists sudden shock, in civil engineering laboratories. Highway materials labs and engineering colleges use it for toughness testing, and its 13.75 kg hammer falls freely through an adjustable 380 mm height between two vertical guides. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer, at its own factory in Ambala, India.

Specifications

Parameter	Detail
Frame	Circular base with two vertical guides
Hammer weight	13.75 ±0.25 kg, raised and released to fall freely down the guides
Height of fall	Adjustable through 380 ±5 mm
Hammer locking	Locking arrangement provided; hammer is removable
Blow counter	Fitted at the top of the equipment to count the number of strokes
Metal measure	75 mm diameter × 50 mm high (supplied)
Tamping rod	230 mm long × 10 mm diameter (supplied)
Product code	SLE/CE/94
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Aggregate Impact Tester Used For?

The aggregate impact value (AIV) test shows how an aggregate behaves under the repeated shocks that traffic and compaction apply to road layers. A sized sample is measured out in the 75 mm × 50 mm metal measure, compacted with the 10 mm tamping rod and set in position on the base. The hammer is lifted to the set height and dropped the number of times the method specifies, with the blow counter keeping the tally.

The crushed sample is then sieved, and the fines produced are expressed as a percentage of the original mass; a lower figure means a tougher aggregate. Colleges often run this test alongside the crushing value test so students can compare static and dynamic strength. This robust frame is typical of the engineering lab equipment in India used by polytechnics and TVET centres; always engage the hammer lock while placing or removing the sample.

What to Specify When Ordering

- Number of Aggregate Impact Testers required
- Any spare metal measures or tamping rods beyond those supplied
- Whether test sieves for the sieving step are also needed

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