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Product Name :

Aggregate Crushing Value Apparatus

Product Code :

SLE/CE/93



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Description :

Aggregate Crushing Value Apparatus (Product Code: SLE/CE/93) is a steel cylinder-and-plunger set used to find how much coarse aggregate breaks down under a gradually applied compressive load in civil engineering and highway materials laboratories. Engineering colleges and testing labs use it with a compression testing machine, and the set is built around a 150 mm diameter mild steel cylinder with a 148 mm plunger. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer, at its own factory in Ambala, India.

Specifications

Parameter	Detail
Cylindrical container	Mild steel, 150 mm ±0.5 mm diameter × 130 mm to 140 mm high
Base plate	200 mm to 230 mm square × 6 mm thick
Plunger	148 mm ±0.5 mm diameter × 100 mm to 115 mm high
Metal measure	115 ±0.5 mm diameter × 180 ±0.5 mm high
Tamping rod	16 mm diameter × 600 mm long, both ends rounded (1 no.)
Set contents	Steel cylinder, plunger, base plate, cylindrical measure and tamping rod
Material and finish	Powder-coated or galvanized steel parts, heat treated andground for durability
Product code	SLE/CE/93
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Aggregate Crushing Value Apparatus Used For?

The aggregate crushing value (ACV) test rates how well road stone and concrete aggregate resist crushing. A graded sample is first measured in the metal measure, filled in layers and tamped with the rounded rod, then transferred to the 150 mm cylinder on its base plate and levelled. The plunger is placed on top and the assembly is loaded steadily in a compression testing machine to the load the test method specifies.

After loading, the crushed sample is sieved and the fines are expressed as a percentage of the original mass; a lower value indicates a stronger aggregate. Because the set is simple and robust, it is common engineering lab equipment in polytechnics and TVET workshops, where students compare aggregates from different quarries. Keep the plunger and cylinder bore clean so the plunger moves freely.

What to Specify When Ordering

- Number of complete sets (cylinder, plunger, base plate, measure and tamping rod)
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OEM

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