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Product Name :

Tensile Strength Tester (Electrically Operated)

Product Code :

SLE/CE/47



Science Lab
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Description :

Tensile Strength Tester (Electrically Operated) (Product Code: SLE/CE/47) is a double-lever testing machine used to measure the tensile strength of cement mortar briquettes in cement and building-materials laboratories. Engineering colleges and testing labs use it for its 900 kg capacity and a micro-switch that stops the machine the instant the briquette fails. It is produced by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer, at its own factory in Ambala, India.

Specifications

Parameter	Detail
Loading system	Friction-free double lever system; load applied by a sliding weight onthe top lever
Capacity	900 kg
Load at failure	Tensile load read accurately to 0.5 kg
Zero setting	Marker on the sliding weight for returning it to the zero position
Operation	Briquette is fixed in the jaws and the machine is switched on; the sliding weight travels along the calibrated lever, applying tension to the specimen
Automatic stop	Micro-switch stops the machine instantly on failure of the briquette
Power supply	230 V, 50 Hz (50 cycles), single phase, AC
Supplied with	One brass briquette mould and one base plate
Product code	SLE/CE/47
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Cement Briquette Tensile Strength Tester Used For?

The tester measures direct tensile strength on mortar briquettes cast in the brass briquette mould. After the briquette is clamped in the jaws and the machine is switched on, the sliding weight moves steadily along the top lever, and the double lever multiplies its effect so that tension on the specimen rises smoothly until it breaks. The lever arrangement therefore lets a moving weight build up loads to the full 900 kg capacity.

In cement technology practicals, students cast briquettes, cure them for different periods and compare the failure loads to see how strength develops with age. As engineering lab equipment in India for diploma and degree courses, it is simple to operate: reset the sliding weight to zero with its marker before each test, keep the jaws free of mortar crumbs so the briquette sits centrally, and read the load as soon as the micro-switch stops the machine.

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