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Product Name :

Ring And Ball Apparatus (Electrical)

Product Code :

SLE/CE/89



Description :

Ring And Ball Apparatus (Electrical) (Product Code: SLE/CE/89) is an electrically heated test set used to determine the softening point of bitumen and similar binders by the ring and ball method in highway and civil engineering laboratories. Each unit comes with a heat-resistant glass bath, tapered rings, a 9.5 mm steel ball, a ring holder and an electric hot plate with energy regulator. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, the OEM and a scientific lab equipment manufacturer in Ambala, India, at its own factory.

Specifications

Parameter	Detail
Test method	Ring and ball softening point
Heating	Electrical, with heater and energy regulator
Power supply	230 V, 50 Hz, single phase, AC
Bath	Heat-resistant glass, supplied with each unit
Rings	Tapered rings
Ball	Steel ball, 9.5 mm diameter
Ring holder	Included
Heater	Electric heater (hot plate)
Product code	SLE/CE/89
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Ring and Ball Apparatus Used For?

Bitumen has no sharp melting point; it softens gradually as it warms. The ring and ball test puts a number on this behaviour: molten binder is cast into the tapered rings, a steel ball is placed on each disc, and the assembly in the ring holder is heated in the glass bath. The temperature at which the softened binder lets the ball sink through and reach the base is recorded as the softening point, which is used with penetration to grade paving bitumen.

The energy regulator lets the operator hold a steady, controlled rate of heating, which matters because a faster rise gives a misleading result. Stir the bath liquid gently for an even temperature, keep the balls centred on the discs, and read the temperature on a thermometer placed near the rings. The clear glass bath lets students watch the binder sag, which makes it a clear demonstration piece among engineering lab equipment in India for highway practicals.

What to Specify When Ordering

- Number of sets needed for your laboratory or student batches
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