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Product Name :

Computerized Emissivity Measurement Apparatus

Product Code :

SLE/MCE/71



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Description :

Computerized Emissivity Measurement Apparatus (Product Code: SLE/MCE/71) is a thermal radiation experiment unit used to compare how strongly different metal surfaces emit heat in heat transfer and thermal engineering laboratories. Colleges looking for a radiation experiment kit at degree level choose it for its 20 mm aluminium, steel and copper samples with different finishes, heated by a 150 W halogen lamp focused through a parabolic reflector. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer, at its own factory in Ambala, India.

Specifications

Parameter	Detail
Heat source	Continuously adjustable halogen lamp with parabolic reflector; electrical power 150 W
Maximum temperature	Approx. 560 °C
Sample position	On a thermocouple at the focal point of the reflector
Radiation detector	Thermopile mounted on a moveable carriage for measurements at different distances
Aluminium samples, Ø 20 mm	1 × matt anodised on both sides; 1 × nickel-plated; 1 × heavily oxidised
Steel samples, Ø 20 mm	1 × heavily oxidised; 1 × painted on both sides; 1 × matt anodised with one painted side
Copper samples	Ø 20 mm
Measuring range – temperature	0–780 °C
Measuring range – radiation intensity	0–1250 W/m²
Dimensions	700 × 450 × 400 mm
Weight	Approx. 20 kg
Power supply options	230 V, 50 Hz, 1 phase; 230 V, 60 Hz, 1 phase; or 120 V, 60 Hz, 1 phase
Product code	SLE/MCE/71
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Emissivity Measurement Apparatus Used For?

Heat radiation is one of the three basic forms of heat transfer; unlike conduction and convection it travels as electromagnetic waves and can even cross a vacuum. In this apparatus a metallic samp d halog s for anodi nts clearl