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Product Name :

Sodium Lamp Kit

Product Code :

SCL/AG26-119



Science Lab
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Description :

Sodium Lamp Kit (Product Code: SCL/AG26-119) is a low-pressure sodium discharge light source used to give monochromatic yellow light for optics experiments in physics and chemistry laboratories. It uses a 45 W sodium discharge tube housed in a metal shield with a 25 mm diameter aperture, for 200–250 V AC supplies. It is supplied by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, India, as part of its optics lab equipment for India and overseas buyers.

Specifications

Parameter	Detail
Lamp type	Low-pressure sodium tubular gas-discharge lamp
Tube rating	45 W sodium discharge tube
Housing	Metal shield with a 25 mm diameter aperture
Supply	For use on 200–250 V AC supplies
Control gear	Designed to operate with a matching electrical ballast/transformer
Applications	Physics and chemistry laboratory experiments, optical polarimetry, monochromatic lighting, scientific demonstrations
Product code	SCL/AG26-119
Supplied by	Jain Scientific Equipments Pvt Ltd (ScienceLab), Ambala, India

What Is the Sodium Lamp Used For?

The light from a low-pressure sodium lamp is concentrated in a narrow yellow band, the sodium D lines, so it serves as a reference source wherever one known colour is needed. Physics students shine it on the slit of a spectrometer to measure prism angles and refractive index, and use it for interference work such as Newton's rings. In chemistry, it is the traditional light for a polarimeter measuring the optical rotation of sugar and other solutions.

Always run the lamp through its matching ballast or transformer, never straight from the socket. Give it time after switching on until the yellow output is steady, then turn the 25 mm aperture towards the slit or instrument being lit. Avoid switching it on and off repeatedly during a practical, and let the shield cool before the lamp is moved.

What to Specify When Ordering

- The mains supply at your site (the lamp is for 200–250 V AC supplies).
- Whether a matching ballast, transformer or spectral lamp power supply should be quoted with the lamp.
- The number of kits, and the spectrometers or polarimeters they will serve.

Supplier

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