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Product Name :

Cut Back Bitumen Distillation Equipment

Product Code :

SLE/CE/90



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Description :

Cut Back Bitumen Distillation Equipment (Product Code: SLE/CE/90) is a distillation set used to separate the volatile fraction of cutback bitumen from its residue, so the distillate can be measured and the residue tested further in highway laboratories. It comprises a heavy-gauge shield with chimney, an electric hot plate with energy regulator, a 500 ml distillation flask and a 100 ml Crow receiver. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM maker of laboratory distillation apparatus in India, at its own factory in Ambala.

Specifications

Parameter	Detail
Shield	Heavy-gauge shield with a lagged cover in two parts, and wire gauze
Platform	Supports the shield; chimney arranged for fitting to a stand
Heating	Electric hot plate with energy regulator
Distillation flask	One, 500 ml
Receiver	One Crow receiver, 100 ml
Thermometer	Not included; specified type ASTM 8C, ?2 to +400 °C, 1 °C subdivisions
Product code	SLE/CE/90
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Cutback Bitumen Distillation Apparatus Used For?

Cutback bitumen is bitumen thinned with a volatile solvent so it can be sprayed or mixed at lower temperatures; once laid, the solvent evaporates and the binder hardens. The distillation test shows how much volatile material a cutback contains and leaves behind the residue that will remain on the road. A measured sample is heated in the 500 ml flask inside the shield, and the distillate is collected in the 100 ml Crow receiver so that its volume can be read at the stages your method specifies.

The residue left in the flask is then tested for properties such as penetration or softening point. Use the energy regulator to keep the distillation rate steady, and the shield to protect the flask from draughts. Solvent vapours are flammable, so work in a fume cupboard, keep ignition sources away and let the set cool before dismantling. An ASTM 8C thermometer (?2 to +400 °C) must be fitted, as none is supplied.

What to Specify When Ordering

- Whether the specified ASTM 8C thermometer should be quoted, as it is not included
- Spare 500 ml distillation flasks and 100 ml Crow receivers, if required
- Whether a stand, condenser or other fittings should be quoted — ask us what is included
- The electrical supply at your laboratory for the hot plate

OEM

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