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Product Name :

Distillation Flask

Product Code :

SLE/GFL/08



Science Lab
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Description :

Distillation Flask (Product Code: SLE/GFL/08) is a borosilicate glass flask with a built-in side arm, used in chemical laboratories to separate liquid mixtures by distillation: the mixture is heated in the bulb, the vapour leaves through the side arm into a condenser, and the condensed liquid is collected separately. Chemistry teachers, lab technicians and students in schools, colleges and universities use it for simple distillation practicals. It is manufactured by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, as part of the borosilicate glassware and laboratory distillation apparatus in India that it also supplies to international markets.

Specifications

Parameter	Detail
Material	Borosilicate glass
Resistance	Heat resistant and chemical resistant
Design	Flask with a side tube (side arm) that carries vapour to a condenser
Capacities	100 mL, 125 mL, 250 mL, 500 mL
100 mL size	Diameter 65 mm; height 215 mm; side tube diameter 7 mm; arm length 100 mm
125 mL size	Diameter 68 mm; height 215 mm; side tube diameter 7 mm; arm length 100 mm
250 mL size	Diameter 85 mm; height 226 mm; side tube diameter 9 mm; arm length 130 mm
500 mL size	Diameter 105 mm; height 240 mm; side tube diameter 9 mm; arm length 130 mm
Application	Separating liquid mixtures by distillation in chemical laboratories

Typical Use

In a standard simple-distillation practical the flask is filled to no more than about half its volume with the mixture — salt water or an ethanol–water solution, for example — and a few anti-bumping granules are added for smooth boiling. The neck is closed with a stopper carrying a thermometer whose bulb sits level with the side-arm opening, so the reading shows the temperature of the vapour actually leaving the flask. The side arm is then joined to a condenser and the distillate collected in a receiver. Since the flask sits at the heart of any laboratory distillation apparatus and is heated and cooled again and again, borosilicate glass is the practical material for it.

Match the size to the batch: the 100 mL and 125 mL flasks, with their 7 mm side tubes, suit student-scale bench work, while the 250 mL and 500 mL flasks carry a wider 9 mm side tube and a longer 130 mm arm for larger volumes and demonstrations. Heat gradually with a heating mantle or over a wire gauze, clamp the flask at the neck rather than the bulb, and let it cool fully before rinsing.

Manufacturer

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