Science Lab

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Product Name :

Absorption Tube with Side Arms

Product Code :

SLE/CH/182



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Description :

Absorption Tube with Side Arms (Product Code: SLE/CH/182) is a heavy walled, clear borosilicate glass U-tube fitted with side arms of approximately 6mm diameter, so it can be plugged straight into a gas train with flexible tubing. It is used by chemistry departments and analytical teaching labs to dry a gas or absorb a component such as water vapour or carbon dioxide while the gas flows continuously through the packing. This piece of borosilicate laboratory glassware in India is manufactured by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala.

Specifications

Parameter	Detail
Material	Heavy walled borosilicate glass
Form	U-form with side arms
Side arm diameter	Approximately 6mm
Colour	Clear
Properties	Heat resistant; chemical resistant

Typical Use

With side arms, the gas connections and the filling openings are separate. The absorbent is poured in through the top of each limb, held with a small plug of glass wool and sealed with solid stoppers, while the incoming and outgoing gas lines slide onto the side arms. When the packing is spent, the stoppers come out for refilling without disturbing the tubing, which saves time when a gas train has several stages such as washing, drying and absorption in sequence.

This layout suits combustion and absorption experiments, where one tube collects water and a second collects carbon dioxide, and each is weighed before and after to find the mass absorbed. The heavy walls stand up to repeated handling, and the transparent glass lets the operator watch the absorbent change as it works through the tube. Support the tube with a clamp rather than letting it hang on the tubing, and slide tubing onto the side arms gently with a little water as a lubricant to avoid strain on the glass.

Manufacturer

Jain Scientific Equipments Private Limited, trading as ScienceLab, produces laboratory glassware and teaching apparatus in Ambala, Haryana for schools, colleges and technical institutes. Visit our company profile for an overview of the company.

Related Chemistry Lab Equipment

Other items that commonly sit in the same gas train:

- Absorption Tube — the plain U-form version, 125mm long and 15mm in diameter.
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