Email : sales@scilabexport.com
Phone: +91-7082934803

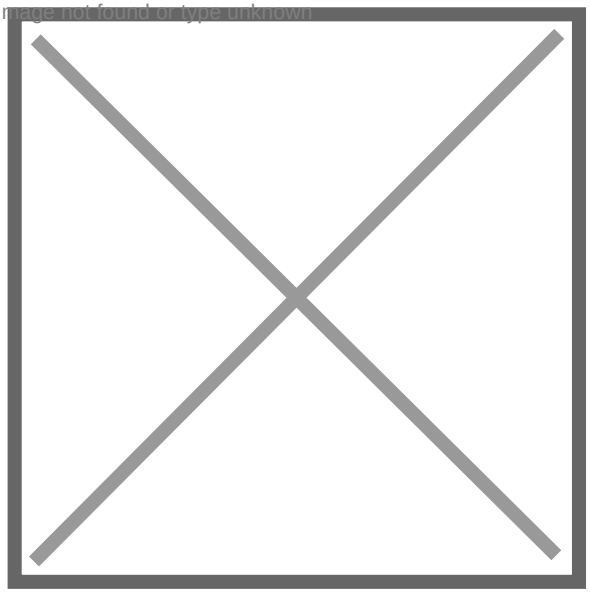
Product Name :

Syringe

Product Code :

SCL-563/031

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Description :

Syringe (Product Code: SCL-563/031) is a plastic syringe used in the chemistry laboratory to demonstrate the effect of pressure on boiling point. It works as a simple reciprocating pump: a plunger, which in modern syringes is really a piston, fits tightly inside a cylindrical barrel, and pulling or pushing it takes in or expels liquid or gas through the discharge orifice at the open front end. Because the seal is tight, the same syringe can lower or raise the pressure on a small sample in seconds, which makes an abstract idea visible to the whole class. The syringe is supplied by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, among the lab consumables and chemistry lab equipment in India that it offers to schools and colleges.

Specifications

Parameter	Detail
Model No.	SCL-563/031
Material	Plastic
Construction	Plunger (piston) fitting tightly within a cylindrical barrel
Working principle	Simple reciprocating pump; plunger pulled and pushed along the inside of the barrel
Handles	Liquid or gas, taken in and expelled through the discharge orifice at the open front end
Main application	Demonstrating the effect of pressure on boiling point
Capacity	Not stated; confirmed on enquiry

Typical Use

For the boiling point demonstration, draw a little hot water – hot but no longer boiling – into the syringe, point the tip upwards and push out the trapped air. Seal the tip with a fingertip or a cap and then pull the plunger back steadily. The space above the water is now at reduced pressure, and the water starts to boil even though it is cooler than its normal boiling point. Push the plunger back in and the boiling stops. Students see directly that boiling point depends on the pressure above a liquid, the same reason water boils at a lower temperature on a high mountain and food cooks faster in a pressure cooker.

Hold the barrel with a cloth because the water is hot, keep the tip firmly sealed while pulling, and never heat the plastic syringe directly over a flame; warm the water separately instead. The sealed syringe also gives a quick feel for Boyle's law, since trapped air pushes back harder the more it is compressed, and this makes a good introduction before students take measured readings on a Boyle law apparatus.

Supplier

Jain Scientific Equipments Private Limited trades as ScienceLab from Ambala, Haryana, and sourc and intern

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