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Product Name :

Magdeburg Hemisphere

Product Code :

SLE/PHY/235



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Description :

Magdeburg Hemisphere (Product Code: SLE/PHY/235) is a brass hemisphere apparatus used to demonstrate the existence of atmospheric pressure in school and college physics lessons. It has a diameter of 75 mm and is fitted with a stopcock and handle, so air can be drawn out andthe halves then resist being pulled apart. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer, at its own factory in Ambala, as educational physics lab equipment in India.

Specifications

Parameter	Detail
Purpose	Demonstrating the existence of atmospheric pressure
Diameter	75 mm
Material	Brass
Fittings	Stopcock and handle
Evacuation	Through the stopcock with a vacuum pump (listed separately)
Product code	SLE/PHY/235
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Magdeburg Hemisphere Used For?

This apparatus recreates, on a bench scale, the famous 17th-century demonstration by Otto von Guericke in the town of Magdeburg. Wipe the rims clean and apply a thin film of vacuum grease, press the two halves together, and connect the stopcock to a vacuum pump. After pumping, close the stopcock and disconnect the pump: students will find the hemispheres very hard to separate, even though nothing seems to be holding them.

The explanation is that air outside pushes on the whole surface of the sphere, while there is very little air left inside to push back. Opening the stopcock lets air rush in and the halves come apart easily, which makes the role of atmospheric pressure obvious. Keep the rims free of dents and grit, and store the brass hemispheres dry so they continue to seal well between demonstrations.

What to Specify When Ordering

- The version: this brass 75 mm set with stopcock, or the larger plastic model with wooden handles.
- Whether a hand or electric vacuum pump and tubing should be quoted with it.
- The number of sets for demonstration or group practicals.

OEM Manufacturer

Jain Scientific Equipments Private Limited, which trades as ScienceLab, is the OEM (original equip ed factor manu ts