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Product Name :

Gravesande Ring-Device to Demonstrate Thermal Expansion

Product Code :

SCL1255/020



Description :

Gravesande Ring-Device to Demonstrate Thermal Expansion (Product Code: SCL1255/020) is the traditional 's Gravesande ring-and-ball apparatus: a ball and a ring matched so closely that the ball slips through the ring at room temperature but sticks once the ball has been heated. It gives students an instant, visible proof that solids expand when heated, and is used in middle- and secondary-school heat lessons as a simple demonstration model for the physics lab. Thisring device is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, a laboratoryequipment supplier in India, at Ambala, Haryana.

Specifications

Parameter	Detail
Type	Gravesande ring (ring-and-ball thermal expansion device)
Ball diameter	15 mm
Fit	Ball passes through the ring at room temperature; does not pass when the ball is heated
Handles	Both the ball and the ring have handles

Typical Use

Start by passing the cold ball through the ring to show the class that it fits. Then hold the ball by its handle in the flame of a spirit lamp or Bunsen burner for a short while and try again: the ball now rests on top of the ring instead of dropping through. Leave it there and, as it cools, it eventually falls through — a second observation that shows contraction on cooling. Heating the ring as well opens its hole a little, which makes a good discussion question on whether the hole in a heated plate grows or shrinks.

The demonstration links naturally to everyday examples such as gaps in railway lines, loosening a tight jar lid under hot water and the sag of power lines in summer. Always hold both parts by their handles, rest the hot ball on a heat-resistant mat, and let it cool in air before storage. As a small, reusable piece of heat apparatus it complements a heat energy science kit in the school lab.

Manufacturer

ScienceLab apparatus such as this ring device comes from Jain Scientific Equipments Private Limited in Ambala, Haryana, a company that produces demonstration and practical equipment for physics, chemistry and biology teaching. Visit the about-the-company page for details of who we are.

Related Lab Equipment

To run and extend a thermal-expansion lesson, teachers often order these alongside the ring device: