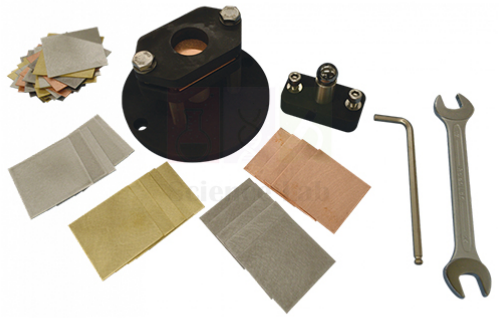
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Product Name :

Cupping Experiment

Product Code :

SLE/ETP/08



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

Description :

Cupping Experiment (Product Code: SLE/ETP/08) is a sheet-metal forming accessory used to judge the ductility of thin metal specimens by pressing a lubricated steel sphere into them until they rupture, in strength-of-materials laboratories. Engineering students load it in the testing machine it is fitted to and watch the cup form and split in an angled mirror below the die plate. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer of engineering lab equipment in India, at its own factory in Ambala.

Key Details

Parameter	Detail
Penetrator	Hardened steel sphere, lubricated before it is pressed into the specimen
Specimen holding	Cupping specimen clamped between the clamping plate and the die plate
Viewing arrangement	Angled mirror placed below the die plate for easy viewing of the specimen as it ruptures
Loading	Penetrator pressed into the specimen by the testing machine it is fitted to
Test result	A cup-shaped indentation that deepens as pressure rises until the specimen ruptures
Product code	SLE/ETP/08
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Cupping Experiment Used For?

A cupping test tells students how well a sheet metal will cope with stretch-forming work such as pressing and drawing. The sheet is clamped between the clamping plate and the die plate, the hardened steel sphere is lubricated, and the testing machine pushes the sphere into the sheet. The specimen bulges into a cup and eventually splits, and the angled mirror lets the whole group see the underside at the moment of rupture.

Repeating the test on different sheet materials, or on the same material before and after heat treatment, gives a clear practical ranking of formability that complements tensile data. Lubricate the sphere the same way for every specimen so friction does not vary, tighten the clamping plate evenly, and record the machine reading at the instant the crack appears in the mirror.

OEM Manufacturer

The Cupping Experiment is an OEM (original equipment manufacturer) product of Jain Scientific Equipments Private Limited, which trades as ScienceLab. It is produced at the company's own licens d. Engi for techn