Science Lab

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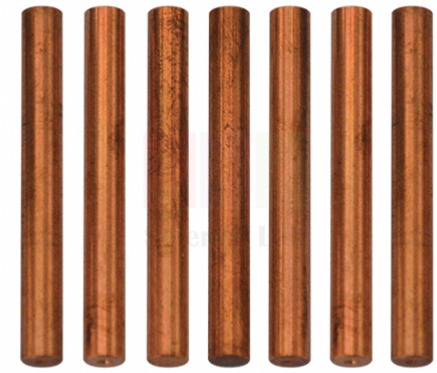
Product Name :

Double Shear Test Specimens

Product Code :

SLE/ETP/07



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Description :

Double Shear Test Specimens (Product Code: SLE/ETP/07) are copper test pieces used to measure a material's shear strength in double-shear tests in engineering and materials testing laboratories. Each specimen is 50 mm long with a diameter of 5.65 to 6 mm, and in the test it is cut across two planes at once, which gives a balanced loading arrangement for studentpracticals. They are manufactured by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**,Ambala, India, as consumables for engineering lab equipment in India.

Specifications

Parameter	Detail
Material	Copper
Length	50 mm
Diameter	5.65 to 6 mm
Test type	Double shear
Product code	SLE/ETP/07
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab), Ambala, India

What Are Double Shear Test Specimens Used For?

In a double-shear test the specimen passes through a fixture so that its middle section is pushed one way while both ends are held, and it fails by shearing across two planes at the same time. The shear strength is the maximum load divided by twice the specimen's cross-sectional area, since two faces carry the load. Pins, rivets, bolts and clevis joints are loaded in just this way in real machines, so the test links classroom results to everyday design.

Copper is ductile, so students usually see the specimen bend and deform before it separates, and the sheared faces make a good discussion point. Because the diameter can fall anywhere between 5.65 and 6 mm, measure each specimen with a micrometer or vernier caliper before testing and use that value when working out the area. Each specimen is destroyed in the test, so plan one for every result you need.

What to Specify When Ordering

- The number of specimens — one per test, plus spares for practice runs
- The testing machine and shear fixture you will use, so we can confirm the specimens suit it
- Any other test specimens needed on the same quotation

Manufacturer

Jain Scientific Equipments Private Limited, trading as ScienceLab, manufactures the Double Shear Test Specimens in Ambala, Haryana, for engineering colleges, polytechnics, training institutes and dealers in India and international markets. They can be ordered in quantities to cover a term's practical classes.

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