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

Product Name :

Specimen

Product Code :

SLE/ETP/01



Science Lab
Email : sales@scilabexport.com
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Description :

Specimen (Product Code: SLE/ETP/01) is a long-style tensile test specimen made of 0.1% carbon steel, used for pull-to-failure tests on the Bench Top Tensile Testing Machine in engineering and materials science laboratories. It is intended for use with that machine in combination with its Extensometer, so students can record extension accurately as the load rises. It is supplied by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, India, to colleges building up their engineering lab equipment in India.

Specifications

Parameter	Detail
Specimen style	Long style
Material	0.1% carbon steel
For use with	Bench Top Tensile Testing Machine, in combination with the Extensometer
Test type	Tensile test
Product code	SLE/ETP/01
Supplied by	Jain Scientific Equipments Pvt Ltd (ScienceLab), Ambala, India

What Is the Carbon Steel Tensile Specimen Used For?

In a tensile test the specimen is clamped in the machine's grips and pulled steadily until it breaks. With the Extensometer attached, students log load against extension and turn the results into a stress–strain curve, from which they read the elastic modulus, yield or proof stress, ultimate tensile strength and elongation at fracture. Measuring the broken ends also gives the reduction of area.

A carbon content of 0.1% places this specimen among the low-carbon steels, which are ductile and usually show clear yielding, a long plastic region and visible necking before they fail. That makes it a good reference material: run it first so students recognise a ductile curve, then compare other materials against it. Record the specimen's dimensions before each test, and remember that every specimen is used once, as it is broken during the test.

What to Specify When Ordering

- The number of specimens — one for every tensile test planned
- The tensile machine and extensometer you will use, so we can confirm the Specimen suits your set-up
- Whether other test specimens are needed on the same quotation

Supplier

Jain Scientific Equipments Private Limited, which trades as ScienceLab, supplies the Specimen from Ambala, Haryana, to engineering colleges, polytechnics, training institutes and dealers in India and international markets. It can be quoted alongside the tensile testing apparatus it is used with.

Find