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Product Name :

Extension Spring, Steel

Product Code :

SLE/PHY/303



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Description :

Extension Spring, Steel (Product Code: SLE/PHY/303) is a closely wound steel coil spring with looped ends used to study motion, mass and potential energy in school and college physics practicals. Each spring is 225 mm long and 6 mm in diameter, stretches an average of 430 mm under a 200 g load, and is sold in packs of 200 for whole-class use. This mechanics lab equipment item is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer and physics instruments supplier in India, at its own factory in Ambala.

Specifications

Parameter	Detail
Material	Steel
Ends	Closely wound, looped
Length	225 mm
Diameter	6 mm
Wire	Approx. 19 swg
Average extension for 200 g load	430 mm
Maximum deflection	750 mm
Pack size	Pack of 200
Product code	SLE/PHY/303
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Steel Extension Spring Used For?

The most common use is a Hooke's law investigation: hang the spring from a clamp by one looped end, add masses to the other, and record the extension for each load. Plotting load against extension gives a straight line while the spring behaves elastically, and its gradient gives the spring constant. With an average stretch of 430 mm for 200 g, the extensions are large enough to read easily with a metre rule.

The same spring supports oscillation work. Pull a hanging mass down slightly, release it, and time several complete oscillations with a stop clock to study simple harmonic motion and how the period depends on mass. It also shows that a stretched spring stores elastic potential energy. Keep loads well within the 750 mm maximum deflection so the coils return to their original length after each run.

What to Specify When Ordering

- Number of packs required (the spring is listed as a pack of 200).

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