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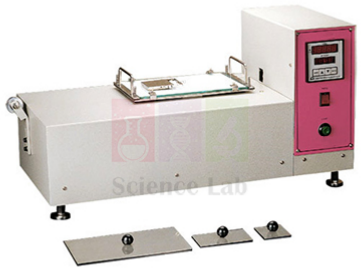
Product Name :

Static and Kinetic Friction Tester

Product Code :

SLE/ET/06



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Description :

Static and Kinetic Friction Tester (Product Code: SLE/ET/06) is a motorised coefficient-of-friction instrument used to measure the force needed to start, and then keep, a sled sliding over a film, sheet or other flat sample in packaging and materials testing laboratories. A 200 gram sled is drawn at 150 mm/minute, readings go up to 9.999 kg, and static and kinetic friction values appear directly on the display. It is manufactured by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, India, for buyers of laboratory instruments in India and abroad.

Specifications

Parameter	Detail
Capacity	Up to 9.999 kg
Test speed	150 mm/minute
Sled weight	200 g
Direct display	Static and kinetic friction values
Accessories	Three stainless steel (S.S) templates
Computerised model	Micro-controller with RS 232 communication in place of the digital controller; interface software offered for installation on the user's PC
Power supply	230 V, 50 Hz, single phase
Product code	SLE/ET/06
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab), Ambala, India

What Is the Static and Kinetic Friction Tester Used For?

Packaging films, laminates, papers and coated sheets must slide neither too easily nor too reluctantly on filling lines and in stacks, so their coefficient of friction is checked routinely. In a typical test one piece of material is held flat, a second piece is fitted to the 200 gram sled, and the sled is pulled across at a constant 150 mm/minute; the force needed to break it free gives the static value and the steadier force while sliding gives the kinetic value.

Quality-control labs use it to accept incoming film batches and compare slip additives, while engineering students use it to see the real difference between static and kinetic friction. Keep the sled face and templates clean, avoid touching the test surfaces, and let samples settle to room conditions first, since dust or handling can shift the reading. On the computerised model, the RS 232 link and interface software let results be kept on a PC.

What to Specify When Ordering

- Standard digital-controller model, or computerised model with micro-controller, RS 232 communication and PC interface software
- A PC to run the interface software, if you choose the computerised model
- Any templates needed beyond the three stainless steel templates included (ask us)

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