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Product Name :

Plastic limit set

Product Code :

SLE/CE/68



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Description :

Plastic limit set (Product Code: SLE/CE/68) is a bench kit used to find the plastic limit of fine-grained soils — the water content at which a rolled soil thread just begins to crumble at 3 mm diameter — in soil mechanics laboratories. Students and technicians roll threads on its 20 cm x15 cm glass plate, compare them with a 3 mm reference rod and dry the crumbs in six moisture containers. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM scientific laboratory apparatus and engineering lab equipment manufacturer in India, at its own factory in Ambala.

Specifications

Parameter	Detail
Glass plate	20 cm x 15 cm, with round ends
Reference rod	Brass or stainless steel, 3 mm diameter x 150 mm long
Flexible spatula	15 cm
Moisture containers	Set of 6
Porcelain basin	150 mm diameter
Plastic wash bottle	500 ml
Quantity	One of each item per set (moisture containers as one set of 6)
Product code	SLE/CE/68
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Plastic Limit Set Used For?

Fine soil is mixed with water in the porcelain basin using the spatula, with the wash bottle adding water a little at a time. A small ball is then rolled under the palm on the glass plate into a thread; when it reaches the thickness of the 3 mm rod without breaking, it is kneaded and rolled again. As the soil dries it eventually crumbles at that diameter, and those crumbs go into the moisture containers for oven-drying. Their average water content is the plastic limit.

Subtracting the plastic limit from the liquid limit gives the plasticity index, the key figure for classifying clays and silts on a plasticity chart. The kit is a staple of educational laboratory equipment in India for diploma and degree soil mechanics courses. Keep the glass plate clean and dry and roll with even pressure so results repeat between students.

What to Specify When Ordering

- Reference rod material: brass or stainless steel
- Number of sets, usually one per student group
- Whether you want extra moisture containers quoted for repeat trials

OEM

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