



PLASTIC LIMIT SET AZA0848

The AZA0848 Plastic Limit Set is a precision-engineered soil testing kit designed for determining the plastic limit of fine-grained soils. The system complies fully with IS: 2720 (Part 5) and ASTM D4318, ensuring accurate and repeatable test results.

The plastic limit is a key parameter in soil classification and geotechnical analysis, defining the minimum moisture content at which soil exhibits plastic behavior. This test is essential for evaluating soil consistency, workability, and engineering performance under varying moisture conditions.

Purpose & Importance

The plastic limit corresponds to the moisture content at which soil can be rolled into 3 mm diameter threads without disintegration.

Key Features

- Determination of Atterberg Limits
- Soil classification and identification
- Assessment of soil workability
- Evaluation of shrink–swell potential
- Design support for foundations, pavements, and earthworks

Applications

- Geotechnical investigations
- Soil mechanics laboratories
- Civil engineering and infrastructure projects
- Road, embankment, and foundation design
- On-site soil testing and evaluation





UNIVERSE Standards Compliance

- IS: 2720 (Part 5) – Methods of Test for Soils
- ASTM D4318 – Liquid Limit, Plastic Limit, and Plasticity Index

Kit Components

- Glass Plate (Marked)

Precision-marked surface for rolling soil threads to 3 mm diameter

- Stainless Steel Spatula

For mixing and handling soil samples

- Moisture Containers (Set of 6)

Aluminum containers with airtight lids for moisture determination

- Plastic Wash Bottle

For controlled addition of water during sample preparation

TECHNICAL SPECIFICATION

Parameter	Details
Test Type	Plastic Limit of Soil
Applicable Standards	IS: 2720 (Part 5), ASTM D4318
Glass Plate Size	Approx. 200 mm × 150 mm
Spatula Material	Stainless Steel
Moisture Containers	Aluminum, airtight with lids
Number of Containers	6
Set Weight	Approx. 2 – 3 kg
Usage	Laboratory & Field Testing