



LE CHATELIER FLASK AZA0793

The Le Chatelier Flask AZA0793 is a precision laboratory glassware instrument used for determining the specific gravity of cement using the displacement method. This parameter is critical for evaluating cement quality, detecting adulteration, and ensuring accurate mix design in construction applications.

Manufactured from high-quality borosilicate glass and calibrated for precision, the flask is widely used in cement testing laboratories, academic institutions, and R&D facilities.

Key Features

- Precision calibrated borosilicate glass construction
- Bulb-type design for accurate volume displacement
- Long graduated neck (0–24 ml) with fine 0.1 ml divisions
- Funnel-shaped top for easy filling and handling
- High resistance to thermal shock and chemical exposure
- Lightweight, durable, and easy to clean

Applications

- Cement quality control laboratories
- Construction material testing facilities
- Research & development centers
- Civil engineering academic laboratories

Advantages

- High precision and reliable results
- Individually calibrated for accuracy
- Durable and chemically resistant glass
- Simple and effective testing method
- Essential for mix design validation





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Working Principle

The instrument determines the specific gravity of cement by measuring the volume displaced in a non-reactive liquid.

Procedure:

1. Fill the flask with kerosene or naphtha up to a marked level.
2. Record the initial reading.
3. Add a known weight of dry cement carefully.
4. Record the new liquid level after displacement.
5. Calculate the specific gravity using weight and displaced volume.

Standards & Compliance

- IS 4031 (Part II) – Methods of Physical Tests for Hydraulic Cement (Specific Gravity)
- Suitable for ASTM equivalent procedures (with minor adjustments)

Build Quality

Constructed from high-grade borosilicate glass, the flask offers:

- Excellent thermal resistance
- High chemical stability
- Long operational lifespan
- Consistent measurement accuracy

Each unit is individually calibrated to ensure reproducibility and compliance with testing standards.



TECHNICAL SPECIFICATION

| Parameter | Specification |
|----------------------|---------------------------------|
| Model | AZA0793 |
| Material | Borosilicate Glass |
| Bulb Capacity | Approx. 250 ml |
| Graduation Range | 0 – 24 ml (neck) |
| Graduation Accuracy | 0.1 ml increments |
| Neck Type | Long, calibrated |
| Funnel Top | Yes |
| Standards Compliance | IS 4031 (Part II) |
| Application | Cement Specific Gravity Testing |

Standard Supply

- Le Chatelier Flask (calibrated)
- Protective packaging