SCIENTICO INDIA
Manufacturer & Exporter · Ambala, Haryana, India

PRODUCT DATA SHEET
Catalogue reference for product evaluation

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Fundamentals of Sedimentation | FluidoSurge-X 244

Category: Fluid Mechanics · **Country of Origin:** India

Product Overview

The Fundamentals of Sedimentation is a laboratory apparatus designed to study and compare sedimentation processes in suspensions. Manufactured by SCIENTICO, the unit enables observation and measurement of settling behavior of solid particles in liquids. Made by Scientico India, ISO 9001:2015 certified, and supplied with a calibration certificate and operation manual.

View this product online: https://scienticoindia.com/product/fundamentals-of-sedimentation-fluidosurge-x-244/



Request a model-specific quotation
Include quantity and delivery country.

Technical Specifications

Parameter	Specification
Apparatus Type	Sedimentation study unit
Number of Tanks	5
Tank Material	Plexiglas
Tank Length	1000 mm
Tank Inside Diameter	42 mm
Scale Division	1 mm
Tank Mounting	Vertical
Illumination	Fluorescent tubes / LED
Power Consumption	< 100 W
Measuring Beakers	3 units
Measuring Beaker Capacity	5000 mL
Measuring Beaker Scale Division	100 mL
Stopwatch Resolution	1/100 s

Key Features

Key Features

- Designed for fundamental sedimentation experiments
- Five transparent tanks for simultaneous comparison
- Tanks removable for easy preparation and cleaning
- Integrated backlighting for clear observation of settling behavior
- Suitable for studying different suspensions and concentrations
- Simple and repeatable experimental setup for teaching use

Applications

- Fluid mechanics laboratory experiments
- Environmental engineering studies
- Study of solid-liquid separation processes
- Comparison of settling velocities in suspensions
- Demonstration of sedimentation principles in teaching laboratories

Construction & Design Details

The apparatus features five vertical Plexiglas tanks mounted on a stable support structure. Each tank includes a graduated scale for direct measurement of sedimentation height over time. The backlighting system improves visibility of the settling interface. Measuring beakers are used to prepare suspensions prior to testing, ensuring consistent and repeatable experimental conditions.

Experiments

- Determination and comparison of settling velocities of solids in suspensions
- Study of the influence of solid density and concentration
- Investigation of the effect of liquid density and viscosity
- Examination of the influence of coagulants on settling velocity

Recommended Accessories (Optional)

- Pycnometer for density determination of liquids and solids
- Balance for mass measurement
- Coagulants for sedimentation studies

Standard Scope of Delivery

- 1 experimental module
- 3 measuring beakers
- 1 stopwatch
- 1 power cord
- 1 instruction manual

Export & Supply Capability

SCIENTICO manufactures the Fundamentals of Sedimentation FluidoSurge-X 244 for engineering colleges, technical universities, and research laboratories. The equipment is suitable for domestic and international supply. Export packing and documentation are provided according to customer and destination requirements.

Ordering & Delivery

- Send the product name, quantity, delivery country and destination with your enquiry.
- Production schedule, freight, payment terms and export documents are confirmed in the written quotation.

Frequently Asked Questions

Q1. What is the purpose of FluidoSurge-X 244?
It is used to study and compare sedimentation behavior of solids in liquid suspensions.

Q2. How many sedimentation tanks are provided?
Five transparent tanks are provided for simultaneous experiments.

Q3. Can the tanks be removed for cleaning?
Yes. All tanks are removable for filling, mixing, and cleaning.

Q4. How is sedimentation observed clearly?
The tanks are backlit using fluorescent tubes or LEDs to enhance visibility.

Q5. Are coagulants supplied with the apparatus?
No. Coagulants are recommended as optional accessories.

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