



SOLID DENSITY TESTER

The TTD Series Solid Density Tester is an advanced analytical instrument designed to measure the specific gravity and volume of solid materials with exceptional speed and accuracy. Utilizing the fundamental Archimedes' Principle (Hydrostatics Method), this system delivers instant results for solids, pellets, and even floating samples.

Whether you are conducting quality control in rubber manufacturing, analyzing structural integrity in ceramics, or developing new composite mixtures, the TTD Series ensures your data is reliable and compliant with international standards including ASTM D297, ISO 1183, and JIS K6530.

APPLICATIONS

- **Rubber and Plastics Industry** – Measures density of solid polymers, pellets, and elastomers for quality control and material classification.
- **Composite Materials** – Evaluates density and mixture ratios of engineered materials to ensure consistency in production.
- **Metals and Alloys** – Determines density and volume of solid samples for research, manufacturing, and compliance testing.
- **Ceramics and Glass** – Tests density of rigid and brittle materials for strength and structural integrity analysis.
- **Floating Materials** – Assesses buoyancy-related properties for lightweight and specialized applications.
- **Pharmaceutical and Chemical Sectors** – Measures density of pellets and solid compounds for precise formulation control.
- **Academic and Research Laboratories** – Provides accurate density data to support experimental studies and material development.

THEORY & METHOD

Solid Density Tester Applying buoyancy of the object immersed in the liquid and hydrostatics principle.

Standards: ASTM D297/ D792, JIS K6530, ISO 2781/ 1183

TECHNICAL SPECIFICATIONS

Model	TTDSSolidIII	TTDSSolidV	TTDSolidXII
Testable sorts	Solid, Pellet, Floating Samples		
Weighing range	0.01g ~ 300g	0.01g ~ 500g	0.01g ~ 1200g
Density precision	0.001 g/cm3		
Value showed	Density, Volume and Mixture ration		



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