



CERAMICS DENSITY TESTER TTD-SLPC

Ceramics Density Tester TTD-SLPC, meticulously engineered for precise ceramic density analysis. This advanced tester is available in three models, offering maximum weight capacities of 2000g, 3000g, and 6000g.

Density Meter, Density Tester, Densimeter, Specific Gravity Tester

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Maximum Weight: 2000g / 3000g / 6000g

Weighing Precision: 0.01g / 0.01g / 0.1g

Density Precision: 0.001g/cm³

Compliant with ASTM standards C20, C134, C373, C329, D4254, D854, as well as AASHTO standards T166 and T0705.

Ceramics Density Tester TTD-SLPC is equipped with four functions and can directly display Bulk Density, Wet Density, Porosity, Absorption, Apparent Density, Open Pores, Closed Porosity, and Total Porosity.

APPLICATIONS

Suitable for

Applications include the ceramic industry, pharmaceuticals (pill medicine), porous material research institutes, construction, geological exploration, roadway research, permanent magnets (Sm, Co, Nd, Dy), secondary batteries (Li, Ni, Co, Mn), mixed rare earth materials, Mn-Zn ferrite, Ni-Zn ferrite, NdFeB, Sm-Co, rare earth magnetic materials, and materials for treating water collapse.

Principle

According to ASTM standards C20, C134, C373, C329, D4254, D854, and AASHTO standards T166 and T0705, using the Archimedes principle buoyancy method, optional boiling water method, sealing wax method, and vacuum saturation method allows for the accurate and quick display of bulk density, porosity, and water absorption results.

Specific

1. **BULK** : Adopting the water saturation method for a porous material.
2. **BK+** : Adopting water saturation method for porous absorbent material. With five groups of memory functions.
3. **WAX** : A wax sealing method for porous absorbent material.
4. **DS** : Nonabsorbent material.

FEATURES

- An infrared temperature sensor automatically detects water temperature and performs water temperature compensation.

- Ceramics Density Tester TTD-SLPC features automatic temperature compensation, manual temperature compensation, and solution compensation functions.
- Directly reads body density, apparent porosity, wet density, and volume in absorbent product density measurement mode.
- Built-in memory functions allow for the simultaneous measurement of five groups of samples in absorbent product density measurement mode.
- The density of the absorbent product can be directly determined using the sealing wax method.
- Directly displays values for the development and research of new materials. Equipped with HI and LO limit functions and a buzzer, the device determines whether the specific gravity of the test object meets standards in non-absorbent product density measurement mode. It also features a mixing ratio function for two groups.
- Ceramics Density Tester TTD-SLPC equipped with RS-232 and USB interfaces.
- A large-size water tank design minimizes errors caused by suspension rail buoyancy. The water tank dimensions are 290 x 255 x 160 mm.

TECHNICAL SPECIFICATIONS

Model	TTD-SLPC2000	TTD-SLPC3000	TTD-SLPC6000	
Max weight	2000g	3000g	6000g	
Weighting precision	0.01g		0.1g	
Density precision	0.001 g/cm ³			
Wet density	0.001 g/cm ³			
Porosity	0.01 %			
Absorption	0.01 %			
Apparent DS	0.001 g/cm ³			
Open pores	0.001 g/cm ³			

Close porosity		0.01 %
Total porosity		0.01 %
Max ratio		0.01 %
Mode	Bulk density (Adopting water saturation method)	Porous material : Show Bulk density, Wet density, Porosity, Absorption, Apparent DS, Open pores, Close porosity, Total porosity
	Bulk density (Adopting water saturation method) (Five groups of memory functions)	Porous absorbent material : Show Bulk density, Wet density, Porosity, Absorption, Apparent DS, Open pores, Close porosity, Total porosity
	Bulk density (Wax sealing method)	Porous absorbent material : Show Bulk density directly
	Nonabsorbent material	Show Density, Volume, Mix ratio directly



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