



CERAMICS DENSITY TESTER TTD-1200PC

Ceramics Density Tester TTD-1200PC, designed for precise and comprehensive ceramic density measurements. With a maximum weight capacity of 1200g, this tester offers a weighing precision of 0.01g and a density precision of 0.001g/cm³.

Density Meter, Density Tester, Densimeter, Specific Gravity Tester

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Max Weight: 1200g

Weighing Precision: 0.01g

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-1200PC 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

The 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, utilizing methods such as the Archimedes principle buoyancy method, optional boiling water method, sealing wax method, and vacuum saturation method allows for accurate and rapid display of bulk density, porosity, and water absorption results.

Mode

1. **BULK** : Adopting water saturation method for 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.
- 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 allows 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-1200PC equipped with RS-232 and USB interfaces.
- A large-size water tank design reduces errors caused by the buoyancy of the suspension rail. The water tank dimensions are 148 x 100 x 85 mm.

TECHNICAL SPECIFICATIONS

Model	TTD-1200PC	
Max weight	1200g	
Weighting precision	0.01g	
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, and Mix ratio directly



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