

CERAMICS DENSITY TESTER TTD- 300PC/600PC



Ceramics Density Tester TTD-300PC/600PC, engineered for precise ceramic density measurements. This versatile tester offers maximum weight capacities of 300g and 600g with a weighing precision of 0.01g and density precision of 0.001g/cm³.

Density Meter, Density Tester, Densimeter, Specific Gravity Tester

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Maximum Weight: 300g / 600g

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.

The machine includes four functions and can directly display Bulk Density, Wet Density, Porosity, Absorption, Apparent Density, Open Pores, Closed Porosity, and Total Porosity.

APPLICATIONS

Suitable for

Ceramic industry, pharmaceutical industry, 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 water treatment collapse materials.

Principle

In compliance with ASTM standards C20, C134, C373, C329, D4254, D854, and AASHTO standards T166 and T0705, the Archimedes principle buoyancy method, optional boiling water method, sealing wax method, and vacuum saturation method can accurately and quickly display results for bulk density, porosity, and water absorption.

Mode

- 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

- The infrared temperature sensor can automatically detect water temperature and perform water temperature compensation.
- Features automatic temperature compensation, manual temperature compensation, and solution compensation functions.
- In absorbent product density measurement mode, it directly reads body density, apparent porosity, wet density, and volume.

- Built-in memory can store five groups of measurements simultaneously in absorbent product density measurement mode.
- The density of the absorbent product can be directly read using the sealing wax method.
- The sealing wax method enables direct reading of absorbent product density. Additionally, it displays the value of new material development research, incorporating HI and LO limit functions along with a buzzer to determine if the test object's specific gravity meets the criteria in non-absorbent product density measurement mode. It also includes a function for two groups mixing ratio.
- Ceramics Density Tester TTD-300PC/600PC equipped with RS-232 & USB Interface.
- Ceramics Density Tester TTD-300PC/600PC features a large-size water tank design to mitigate errors caused by suspension rail buoyancy, measuring 148x 100 x 85mm.

TECHNICAL SPECIFICATIONS

Model	TTD-300PC	TTD-600PC
Max weight	300g	600g
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, Mix ratio directly



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