



CERAMICS DENSITY TESTER TTD-214PC

Ceramics Density Tester TTD-214PC, designed for exceptional precision in ceramic density measurements. With a maximum weight capacity of 210g, this tester offers a remarkable weighing precision of 0.0001g and a density precision of 0.0001g/cm³.

Density Meter, Density Tester, Densimeter, Specific Gravity Tester

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Maximum Weight: 210g

Weighing Precision: 0.0001g

Density Precision: 0.0001g/cm³

Compliant with ASTM standards C20, C134, C373, C329, D4254, D854, as well as AASHTO standards T166 and T0705. The machine 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 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 efficient display of bulk density, porosity, and water absorption results.

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

- An infrared temperature sensor automatically detects water temperature and compensates accordingly.
- Ceramics Density Tester TTD-214PC features automatic, manual, and solution temperature compensation functions.

- Reads body density, apparent porosity, wet density, and volume directly in absorbent product density measurement mode.
- Built-in memory functions allow simultaneous measurement of five sample groups in absorbent product density measurement mode.
- The density of the absorbent product can be directly determined using the sealing wax method.
- Displays values for the development of new materials directly. Equipped with HI and LO limit functions and a buzzer, the device assesses whether the specific gravity of the test object meets standards in non-absorbent product density measurement mode. Additionally, it offers a mixing ratio function for two groups.
- Ceramics Density Tester TTD-214PC equipped with RS-232 and USB interfaces.
- Utilizes a large-size water tank design to minimize errors caused by suspension rail buoyancy. The water tank dimensions are 148x 100 x 85mm.

TECHNICAL SPECIFICATIONS

Model	TTD-214PC	
Max weight	210g	
Weighting precision	0.0001g	
Density precision	0.0001 g/cm ³	
Wet density	0.0001 g/cm ³	
Porosity	0.01 %	
Absorption	0.01 %	
Apparent DS	0.0001 g/cm ³	
Open pores	0.0001 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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