



POWDER METALLURGY DENSITY TESTER TTD- 214PM

Powder Metallurgy Density Tester TTD-214PM, engineered for ultra-precise density measurements in powder metallurgy. With a maximum weight capacity of 210g, this advanced tester features a weighing precision of 0.0001g and a density precision of 0.0001g/cm³.

Maximum weight: 210g

Weighing precision: 0.0001g

Density precision: 0.0001g/cm³

Compliant with ASTM B962, B311, B328, MPIF STM 42, STM 57, and ISO 2738:1999 standards.

The machine includes four functions: directly displays bulk density, wet density, apparent porosity, oil content, and volume.

Density Meter, Density Tester, Densimeter, Specific Gravity Tester

APPLICATIONS

Suitable for

Powder metallurgy industry, downstream electrical tools of powder metallurgy, pneumatic tools, sewing machines, sports equipment, computer fans, general fans, auto parts, hand tools, new materials research lab, etc.

Principle

In accordance with ASTM B962, B311, B328, MPIF STM 42, STM 57, and ISO 2738:1999 standards, this device utilizes the Archimedes principle buoyancy method. It uses the boiling water method, immersion method, and vacuum-saturated

waterproof treatment. Consequently, it can directly display bulk density and porosity data.

FEATURES

- The infrared temperature sensor automatically detects water temperature and adjusts accordingly.
- Powder Metallurgy Density Tester TTD-214PM offers 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.
- The built-in memory function can store measurements for five groups of samples simultaneously in absorbent product density measurement mode.
- It directly displays values for the development of new materials. With high and low limit functions and a buzzer, the device determines if the specific gravity of the test object meets the criteria in non-absorbent product density measurement mode. It also includes a two-group mixing ratio function.
- The built-in oil content measurement mode allows direct reading of the product's oil content.
- Powder Metallurgy Density Tester TTD-214PM equipped with RS-232 and USB interfaces.
- The large 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-214PM	
Max weight	210g	
Weighting precision	0.0001g	
Density precision	0.0001 g/cm3	

Wet density		0.0001 g/cm3
Porosity		0.01 %
Volume precision		0.01 %
Mix ratio		0.01 %
Mode	Bulk density	Porous material : Show Bulk density, Wet density, Apparent porosity density, Volume
	Bulk density (Five groups of memory functions)	Porous absorbent material : Show Bulk density, Wet density, Apparent porosity density, Volume
	Oil-content sample	Show Oil-content directly
	Nonabsorbent material	Show Density, Volume, Mix ratio directly



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