



POWDER METALLURGY DENSITY TESTER TTD- SLPM

Powder Metallurgy Density Tester TTD-SLPM, engineered for precise density measurements in powder metallurgy. This advanced tester offers maximum weight options of 2000g, 3000g, and 6000g, with weighing precision of 0.01g for the 2000g and 3000g options and 0.1g for the 6000g option. The density precision remains consistent at 0.01g/cm³.

Maximum weight options: 2000g, 3000g, 6000g

Weighting precision: 0.01g for 2000g and 3000g options, 0.1g for 6000g option

Density precision: 0.01g/cm³

Compliant with ASTM B962, B311, B328, MPIF STM 42, STM 57, and ISO 2738:1999 standards, this machine is equipped with four functions. It directly displays bulk density, wet density, apparent porosity density, oil content, and volume.

Density Meter, Density Tester, Densimeter, Specific Gravity Tester

APPLICATIONS

Suitable for

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

Principle

In adherence to ASTM B962, B311, B328, MPIF STM 42, STM 57, and ISO 2738:1999 standards, this device uses the Archimedes principle buoyancy method. It utilizes 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 compensates accordingly.
- Powder Metallurgy Density Tester TTD-SLPM 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.
- The built-in memory function can simultaneously measure five groups of samples 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-SLPM equipped with RS-232 and USB interfaces.
- A large-size water tank design is used to reduce errors caused by the buoyancy of the suspension rail. The water tank dimensions are 290 x 255 x 160mm.

TECHNICAL SPECIFICATIONS

Model	TTD-SLPM2000	TTD-SLPM3000	TTD-SLPM6000	
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 %			

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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