



## POROUS SOLID DENSITY TESTER

The TTDS Porous Solid Density Tester is a high-precision instrument designed to measure bulk density, volume, and porosity across diverse industries. Compliant with ASTM and JIS standards, it is essential for evaluating ceramics, construction materials, and powder metallurgy.

Available in three specialized configurations—TTDSPorous IIIPA/VA, IIIB/VB, and IIIC/VC—the series caters to materials like wood, minerals, and oil-impregnated bearings. Supporting weights up to 500g, it ensures material consistency and structural integrity for critical engineering applications.

Engineered for efficiency, the tester features a five-sample memory and four unique software options. It delivers exceptional accuracy with 0.01% porosity precision and 0.001g/cm<sup>3</sup> density precision, providing a reliable, standardized solution for professional quality control and material characterization.

## APPLICATIONS

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- **Ceramics and Construction Materials** – Measures bulk density and porosity in ceramic tiles, bricks, and structural components.
- **Magnetic Materials** – Evaluates density and porosity of ferrites and related magnetic products.
- **Wood and Polymers** – Tests porosity in wood, EVA, EPDM, and sponge materials for product consistency.
- **Minerals and Rocks** – Determines bulk density and porosity for geological and construction applications.
- **Refractories and Graphite** – Assesses material stability under high-temperature conditions by measuring porosity.
- **Powder Metallurgy** – Analyzes bulk density and porosity of sintered parts for strength and performance control.
- **Oil-Impregnated Bearings** – Confirms porosity levels critical for lubrication and durability in mechanical applications.
- **Research and Quality Control** – Provides standardized testing compliant with ASTM and JIS methods for material characterization.

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- TTDSporousIIIPA/ TTDSporousVA: Ceramic pill, construction, magnetic material, wood
  - TTDSporousIIIB/ TTDSporousVB: Minerals, rocks, sponge, EVA, EPDM, refractor, graphite

- TTDSporousIIIC/ TTDSporousVC: Powder metallurgy and oil-impregnated bearing

## FEATURES

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- With 5 sets of memory, you can test 5 samples at one time
- Included four unique software for your choice
- Standards of Porous Solid Density Tester - TTDS-Porous Solid: ASTM C20/C134/C373/C329 ASTM D3574 ASTM B311/B328, JIS Z2505/Z2506

## TECHNICAL SPECIFICATIONS

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| Model              | TTDSporousIIIPA                   | TTDSporousVA | TTDSporousIIIB | TTDSporousVB | TTDSporousIIIC                  | TTDSporousVC |
|--------------------|-----------------------------------|--------------|----------------|--------------|---------------------------------|--------------|
| Standards          | ASTM C20/C134/C373/C329           |              | ASTM D3574     |              | ASTM B311/B328, JIS Z2505/Z2506 |              |
| Weighting range    | 0.01g – 300g                      | 0.01g – 500g | 0.01g – 300g   | 0.01g – 500g | 0.01g – 300g                    | 0.01g – 500g |
| Porosity precision | 0.01%                             |              |                |              |                                 |              |
| Density precision  | 0.001g/cm <sup>3</sup>            |              |                |              |                                 |              |
| Value showed       | Bulk density, volume and porosity |              |                |              |                                 |              |



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