

GUTMAM

- To increase the number of high-quality publications and outputs by providing our university's researchers with an efficient and well-supported environment for conducting scientific studies under optimal conditions,
- To contribute to scientific and technological advancements by establishing sustainable and scalable infrastructure that enables cutting-edge research, serving the needs of universities, the public sector, and private industry,
- To support regional and national economic development by offering services to various industrial and private organizations, particularly in fields prioritized by national development plans—within the framework of university-industry collaboration.

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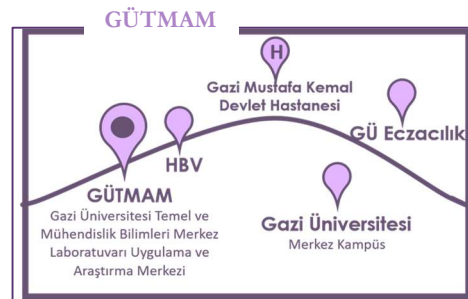
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Automatic Gas Pycnometer

Micromeritics

AccuPyc II 1350





Automatic Gas Pycnometer

Micromeritics AccuPyc II 1350 is an automatic gas pycnometer designed to determine the true volume and density of solid and powder materials with high precision. This device provides the user with fast and repeatable results thanks to the volume measurement based on the helium gas displacement principle. It is widely used especially in the volumetric characterization of ceramics, metals, polymers, pharmaceuticals and powder materials.

Working Principle

AccuPyc II 1350 performs volume determination by the gas displacement method. The sample placed in the device is exposed to helium gas in a fixed volume cell. Since helium is an inert gas that can penetrate even small pores, it provides high accuracy volume measurement. During the measurement, the gas is displaced as much as the volume of the sample and this displacement is calculated using the ideal gas law. The volume information obtained is combined with the mass of the sample to determine the true density value.

Application Areas

- Powder metallurgy and sintering studies
- Ceramic, composite and polymer materials research
- Pharmaceutical product development and quality control
- Characterization of solid form catalysts
- Evaluation of fuel cells, batteries and battery materials.

Technical Specifications

Parameter	Value
Volume Measurement Range	0.01 cm ³ - 350 cm ³
Measuring Cell Volume	10 cm ³ , 100 cm ³ , 350 cm ³
Density Repeatability	± 0.01 g/cm ³
Volume Accuracy	± 0.01 cm ³
Gas Type	Helium or Nitrogen
Analysis Time	Average 3-5 minutes
Automation	Fully automatic, software controlled
Software	Windows based user friendly interface
Data Output	Volume, density, % void, standard deviation



Advantages

- High accuracy and precision: Detailed volume analysis thanks to helium penetration
- Short analysis time: Reliable results within seconds
- Automatic data management: Software-based control and reporting system
- User-friendly design: Fast sample change and easy cleaning
- Compatibility with different sample sizes:
- Interchangeable cell options



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