



Automotives



Battery/Fuel Cells



Chemicals



Pharmaceuticals



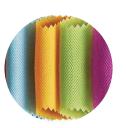
Not just products... Solutions!



Food Processing



Ceramics



Non Wovens

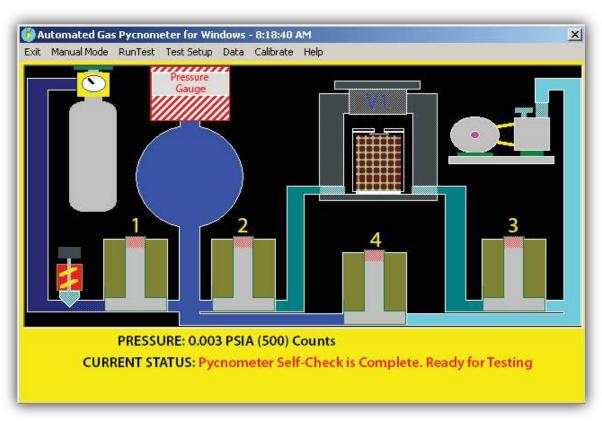


Powder Metallurgy

AUTOMATED GAS PYCNOMETER PYC-G100A

HELIUM PYCNOMETER

PMI's Automated Gas/Helium Pycnometer is used to determine the true volume and true density of powders and bulk solids using high-precision volume measurements and density calculations. The true volume of a solid is calculated from the measured drop in pressure when a known amount of gas is allowed to expand into a chamber containing sample. Thus, the true volume obtained by pycnometry includes any pore volume accessible to the gas. Helium is the preferred gas, because it exhibits ideal gas behavior. However, almost any non-corrosive gas including air can be used. The true density is obtained by dividing the weight of the sample by true volume.



FEATURES

- Non destructive .
- Automated Control.
- Pore Structure Characteristics: Absolute Density.
- Operating Mode: PMI Automated Gas Pycnometer can be operated via personal computer (PC) in either automatic or manual modes.

Porous Materials, Inc. Analytical Services Department 20 Dutch Mill Road Ithaca, NY 14850 USA Phone 607-257-4267, 2575544 or 1-800-825-8764 E-mail: info@pmiapp.com www.pmiapp.com **GAS PYCNOMETRY ANALYSIS** Test Type: VACUUM Test Date: 06-22-2014 Sample ID: Polypropylene resin Mass: 10.481 gm Reference Volume: 11.31 cc Sample Chamber Volume: 24.96 cc PFO PIO PI PF **VOLUME DENSITY** PSIA PSIA PSIA PSIA (cc) 00.003 00.003 09.798 04.399 11.073 00.947 -00.003 -00.002 09.802 04.394 11.051 00.948 -00.003 -00.002 09.796 04.392 11.055 00.948 -00.003 -00.003 09.792 04.394 11.076 00.946 -00.00**3** -00.00**3** 09.796 04.393 11.060 00.948 Average Volume: 11.063 cc Average Density: 0.947 +/- 0.001

SOFTWARE FEATURES

- Capable to be programmed for automatic repeat measurements or for data acquisition
- Windows based graphic user interface (GUI)
- Automatic pressure and volume calibration routines
- Under user selected tolerances.
- Graphic presentation of the data to be evaluated and analysis results
- Exporting graphic files to window based word / excel processing files for report generation
- Provision for off-line data processing.
- Integrated detailed help system.
- True density is provided by the software.

SPECIFICATIONS

- Sample Size: 100cc
- Number of Sample Chambers: 1
- Sample Chamber Size: 1"(dia) X 2.5"(length)
- **Sample Type:** Single sample loading feature, combined with automatic repeated run for user specified maximum no. of runs ease of operation & high performance.
- Accuracy: ±0.05% of full scale volume
- Total Analysis Time: Less than 5 minutes
- Instrument can repeat measurements automatically with user defined settings
- Gas type: Helium and any non-corrosive gas including air can be used
- Safety: Mechanical relief valves prevent over pressurization at needed locations
- Power Requirements: 220±10 VAC, 50±1 Hz
- Environmental Temp: upto 45°C
- Environmental Humidity: upto 85%
- Spare parts for one year Operation
- Operational and Maintenance Manual
- Spare Parts list
- Includes calibration volumes
- Operating Mode: PMI Automated Gas Pycnometer can be operated via PC in either automatic or manual modes.

APPLICATIONS

- Automotive Industry
- Food Processing Industry
- Battery/Fuel Cells Industry
- Ceramic Industry
- Chemical Industry
- Nonwovens Industry
- Pharmaceutical/Medical Industry
- Powder Metallurgy Industry



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Non Wovens



Powder Metallurgy

SALES & SERVICE

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