



Porous Material Inc. (USA)

BET Sorptometer



Description :

PMI's BET Sorptometer accurately measures total surface area (via single and multi-point methods, and adsorption and desorption isotherms), mean pore size, pore size distribution, pore volume, and pore structure. PMI's BET Sorptometer can assess a wide variety of samples, including powders and bulk solids, and can analyze both micropores and mesopores.

Applications / Features :

Volumetric and continuous-flow methods are utilized to characterize samples for the physical properties named under the Tests section. For all precision volumetric instruments, the equilibrium volume of a gas adsorbed on a sample can be determined by measuring the decrease in pressure of a known volume of adsorbate gas at a controlled pressure and temperature. This decrease in pressure is the result of the expansion of the adsorbate gas as it is released from the manifold to the sample cell and from gas actually adsorbing on to the sample.

- ✚ Handles micropores and mesopores
- ✚ Evacuation and testing under sub-freezing to elevated temperature ranges
- ✚ Unlimited number of user defined data points

- ✚ Windows-based software handles all control, measurement, data collection, and report generation; manual control also possible
- ✚ Compatible with Windows 95 or higher
- ✚ Real-time visual test display depicts testing status and results throughout operation
- ✚ Non-destructive testing
- ✚ Length of test varies from 2.5 hrs to 2 days depending on sample type and tests performed
- ✚ Wide range of acceptable sample types and sizes
- ✚ Multiple sample chambers available
- ✚ Minimal maintenance required

Specifications :

Pore Size Range	3.5 Å - 2000 microns
Surface Area Range	0.01 m²/g - infinity
Sample Size	Up to 1 cm in diameter
Pressure Range	Vacuum - 1 Atm (14.5 PSI)
Pressurizing Gas	Any non-corrosive gas including nitrogen, krypton, argon, ammonia
Pressure Transducer Range	10⁻⁴ Torr - 1000 Torr
Accuracy	0.15%
Resolution	1 in 20,000
Power Requirements	110/220 VAC, 50/60 Hz
Dimensions	70" H x 29" W x 13" D
Weight	250 lbs

Taiwan and China Area:

Chia Yun Instrument Inc.
佳允股份有限公司

TEL: +886-2-25419192 FAX: +886-2-25411553

E-mail: chiayun@cyi-pmi.com

Southeast Asia Area:

Porous Measurement Int'l Sdn. Bhd.

Kuala Lumpur Office:

TEL: +60-3-42958324 H/P: +60-126954957

E-mail: info@cyi-pmi.com

Web site : www.cyi-pmi.com