

Testing Services

**The Most Reliable,
Experienced, &
Prompt Service
Anywhere!**



Capillary Flow Porometry: Bubble Point, Mean Flow Diameter, Pore Distribution, Hydro-head

Liquid Extrusion Porosimetry: Through Pore Volume and Liquid Permeability

Permeability: Frazier, Gurley, Rayl, Darcy, Gas Permeability, Liquid Permeability, Diffusion Permeametry

Water Vapor Transmission Rate: Function of Humidity, Pressure, and Temperature

Mercury and Non-mercury Intrusion Porosimetry: Pore Volume, Diameter, Surface Area, Intrusion/Extrusion, Hydrophobic/Hydrophilic Pores

Gas Adsorption Technique: Surface Area, Pore Volume, T-curve, Micropore Analysis, Adsorption/Desorption Isotherms, Chemisorption of strong chemicals, Vapor Adsorption

Pycnometry: Bulk Density, True Density

Effects of Simulated Services Conditions: Compressive Stress, Stress Cycles, Temperature, Strong Chemicals



PMI Europe

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Phone: +32 477 79 6011

Porous Materials, Inc.

20 Dutch Mill Road, Ithaca, NY 14850

Phone: (607)257-5544 Fax: (607)257-5639

Toll Free (Canada & USA): 1-800-TALK-PMI

Email: info@pmiapp.com Website: www.pmiapp.com

Email: patrice.hellebaut@pmiappeurope.com

ANALYTICAL SERVICES

At PMI Analytical Services, we are committed to helping you obtain the information you need. Because there are multiple techniques and instruments, it is critical at the onset to identify the appropriate method of measurement. At PMI, we begin by discussing your application with you. We learn the results you need to obtain, and then recommend a specific test or combination of tests that will provide the most comprehensive results.

While PMI provides you with a detailed report, our applications engineers are always available to discuss and help interpret your results.

We can analyze your samples and return your results to you (hard copy or on disk, via email, fax, or US Postal service) in as little as 1-2 days.

TESTING PRICES

Mercury Intrusion Porosimetry

T101	Pore Volume, Pore Size Distribution, and Surface Area		\$195
T102	Hysteresis	Add	\$25
T103	Bulk and Absolute Density	Add	\$55
T104	Particle Size Distribution	Add	\$35
T105	Particle Size Distribution Only		\$70
T106	Compressed Sample Porosimetry		\$265

Aquapore / Organopore (nonwetting/nonmercury porosimetry)

T201	Pore Volume, Pore Size Distribution, and Surface Area		\$265
T202	Hysteresis	Add	\$55
T203	Compressed Sample Porosimetry		\$345

Pycnometry

T301	Bulk Density (Mercury Pycnometry)		\$60
T302	Absolute Density (Helium Pycnometry)		\$70

BET Analysis: Surface Area

T401	Single Point Surface Area – Nitrogen		\$95
T402	Single Point Surface Area – Krypton		\$115
T403	Multi Point Surface Area – Nitrogen		\$140
T404	Multi Point Surface Area – Krypton		\$160

Gas Adsorption Analysis: Using Nitrogen

T410	Multi Point Surface Area, Total Pore Volume, and Average Pore Diameter (No Isotherms)		\$225
T411	Complete Adsorption Isotherms (No Data Analysis)		\$270
T412	Complete Desorption Isotherms (No Data Analysis)		\$270
T413	Adsorption & Desorption Isotherms (No Data Analysis)		\$435
T414	Multi Point Surface Area, Adsorption & Desorption Isotherms, and Pore Distribution		\$495
T415	Multi Point Surface Area, Adsorption Isotherm, and Pore Distribution		\$340
T416	Multi Point Surface Area, Desorption Isotherm and Pore Distribution		\$340
T417	Chemisorption		\$205

Special Test Conditions

PMI's Analytical Services Division can accommodate a wide variety of samples, materials, and shapes. Sample size and consistency requirements vary with the test and material to be analyzed. For large numbers of samples, special test conditions or individual assistance, please contact PMI.

Gas Adsorption Analysis: With Gas other than Nitrogen

T420	Adsorption or Desorption Isotherm	\$395
T421	Adsorption & Desorption Isotherms	\$520
T422	Specific Surface Area With Gases Other Than Nitrogen and Krypton	\$175

Aquasorb

T430	Water Vapor Adsorption	\$395
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Capillary Flow Porometry

T501	Gas Permeability	\$100
T502	Pore Distribution and Bubble Point	\$185
T503	Gas Permeability, Pore Distribution, and Bubble Point	\$200
T504	Bubble Point	\$70
T505	Microflow Permeability	\$160
T506	Liquid Permeability	\$130
T507	Hydro-head	\$70
T508	Filter Integrity	\$75
T509	In-Plane Pore Distribution and Bubble Point	\$210
T510	In-Plane Gas Permeability	\$150
T511	In-Plane Gas Permeability, Pore Distribution, and Bubble Point	\$240
T512	Elevated Temperature Option (up to 180 °C)	Add \$100
T521	c 522 Gas Permeability	\$100

Compression Porometry

T601	Gas Permeability	\$150
T602	Pore Distribution and Bubble Point	\$265
T603	Gas Permeability, Pore Distribution, and Bubble Point	\$295
T604	Bubble Point	\$100
T605	Microflow Permeability	\$220
T606	Liquid Permeability	\$205
T607	Hydro-Head	\$100
T609	In-Plane Pore Distribution and Bubble Point	\$295
T610	In-Plane Gas Permeability	\$175
T611	In-Plane Gas Permeability, Pore Distribution, and Bubble Point	\$345

Diffusion Permeability and Vapor Transmission

T701	Diffusion Permeability	\$265
T702	Diffusion Permeability (High Temperature)	\$350
T703	Diffusion Permeability (High Pressure)	\$300
T704	Water Vapor Transmission Rate (Humidity Gradient)	\$500
T705	Water Vapor Transmission Rate (Pressure Gradient)	\$250
T706	Water Vapor Transmission Rate (Range of Humidity)	\$600

Envelope Surface Area, Average Particle Size, and Average Fiber Diameter

T801	Envelope Surface Area	\$95
T802	Envelope Surface Area and Average Particle Size	\$150
T803	Envelope Surface Area and Average Fiber Diameter	\$150
T804	Average Fiber Diameter	\$95

Liquid Extrusion Porosimetry

T901	Through Pore Volume and Distribution	\$250
T902	Hysteresis	Add \$50
T903	Through Pore Volume and Distribution (Directional: Top to Bottom & Bottom to Top)	\$450
T904	Liquid Permeability	\$130
T905	Pore Volume, Distribution, and Liquid Permeability	\$350
T906	Microflow Liquid Permeability	\$195
T907	Effects of Compression on Pore Volume	Add \$100
T908	Elevated temperature test (up to 200 °C)	Add \$100

7/28/04

Credit Toward Purchase

100% credit is provided for the use of our analytical services toward equipment purchase within 6 months
[up to a maximum of 10% of the equipment cost]

TESTING REQUEST FORM



POROUS MATERIALS INC

worldwide leaders in
porosity testing and analysis

info@pmiapp.com

20 Dutch Mill Road
Ithaca NY 14850
1.800.825.5544

Testing Request Form

Complete this form and mail with samples

www.pmiapp.com
phone: 607.257.5544
fax: 607.257.5639

Contact Name: _____

Purchase Order or _____

Company Name: _____

Credit Card Number _____

Mailing Address: _____

Exp Date: _____ (American Express, Visa, or MasterCard)

Requested Turnaround Time:

_____ 1-2 Weeks (standard)

_____ 5 Business Days Guaranteed (Add 20%)

_____ 1-2 Business Days Guaranteed (Add 40%)

Phone Number: _____

Billing Address: _____

Fax Number: _____

Email Address: _____

Billing Phone Number: _____

Test: Price: Quantity:

Mercury Porosimetry

T101	\$195	
T102	Add \$25	
T103	Add \$55	
T104	Add \$35	
T105	\$70	
T106	\$265	

Aquapore / Organopore

T201	\$265	
T202	Add \$55	
T203	\$345	

Pycnometry

T301	\$60	
T302	\$70	

BET Analysis: Surface Area

T401	\$95	
T402	\$115	
T403	\$140	
T404	\$160	

Gas Adsorption Analysis: Using Nitrogen

T410	\$225	
T411	\$270	
T412	\$270	
T413	\$435	
T414	\$495	
T415	\$340	
T416	\$340	
T417	\$205	

Gas Adsorption Analysis: With Gas other than Nitrogen

T420	\$395	
T421	\$520	
T422	\$175	

Description of Sample(s):

Test: Price: Quantity:

Aquasorb

T430	\$395	
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Capillary Flow Porometry

T501	\$100	
T502	\$185	
T503	\$200	
T504	\$70	
T505	\$160	
T506	\$130	
T507	\$70	
T508	\$75	
T509	\$210	
T510	\$150	
T511	\$240	
T512	Add \$100	
T521	\$100	

Compression Porometry

T601	\$150	
T602	\$265	
T603	\$295	
T604	\$100	
T605	\$220	
T606	\$205	
T607	\$100	
T609	\$295	
T610	\$175	
T611	\$345	

Additional Requested Testing Services

price: _____ quantity: _____

Description: _____

Test: Price: Quantity:

Diffusion Permeability and Vapor Transmission

T701	\$265	
T702	\$350	
T703	\$300	
T704	\$500	
T705	\$250	
T706	\$600	

Envelope Surface Area, Average Particle Size, and Average Fiber Diameter

T801	\$95	
T802	\$150	
T803	\$150	
T804	\$95	

Liquid Extrusion Porosimetry

T901	\$250	
T902	Add \$50	
T903	\$450	
T904	\$130	
T905	\$350	
T906	\$195	
T907	Add \$100	
T908	Add \$100	

office use only

7/28/04

Lot #:

Samples Submitted: _____

Lab: _____ Acct.: _____

Shipping Date: ____/____/____

Shipping Method:

____ Priority ____ Next-Day

____ Email ____ Fax

Date Test Done: _____

Shipping Conf # _____

We offer numerous other tests. Please call us for more information.