

ASTM Test Methods appropriate for Micromeritics and Particulate Systems Instruments

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[Clicking the links below will open the standard on the ASTM.org website](#)

Chemisorption

ASTM D3908-03(2008) Standard Test Method for Hydrogen Chemisorption on Supported Platinum Catalysts by Volumetric Vacuum Method – Committee D32 on Catalysts

ASTM D4824-03(2008) Standard Test Method of Catalyst Acidity by Ammonia Chemisorption – Committee D32 on Catalysts

New Test Method for Carbon Monoxide Chemisorption on Supported Platinum on Alumina Catalysts using Dynamic Flow Method – **Committee D32 on Catalysts**

New Test Method for Carbon Monoxide on Supported Platinum on Alumina Catalysts using Manometric Method – **Committee D32 on Catalysts**

Surface Area and Gas Adsorption

ASTM B922-10 Standard Test Method for Metal Powder Specific Surface Area by Physical Adsorption – Committee B09 on Metal Powder and Metal Powder Products

ASTM C1069-09 Standard Test Method for Specific Surface Area of Alumina or Quartz by Nitrogen Adsorption – Committee C21 on Ceramic Whitewares and Related Products

ASTM C1274-10 Standard Test Method for Advanced Ceramic Specific Surface Area by Physical Adsorption – Committee C28 on Advanced Ceramics

ASTM D1993-03(2008) Standard Test Method for Precipitated Silica – Surface Area by Multipoint BET Nitrogen – Committee D11 on Rubber

ASTM D3663-03(2008) Standard Test Method for Surface Area of Catalysts and Catalyst Carriers – Committee D32 on Catalysts

ASTM D4222-03(2008) Standard Test Method for Determination of Nitrogen Adsorption and Desorption Isotherms of Catalysts and Catalyst Carriers by Static Volumetric Measurements – Committee D32 on Catalyst

ASTM D4365-95(2008) Standard Test Method for Determining Micropore Volume and Zeolite Area of a Catalyst – Committee D32 on Catalysts

ASTM D4567-03(2008) Standard Test Method for Single-Point Determination of Specific Surface Area of Catalysts and Catalyst Carriers Using Nitrogen Adsorption by Continuous Flow Method – Committee D32 on Catalysts

ASTM D4641-12 Standard Practice for Calculation of Pore Size Distributions of Catalysts and Catalyst Carriers from Nitrogen Desorption Isotherms – Committee D32 on Catalysts

ASTM D4780-12 Standard Test Method for Determination of Low Surface Area of Catalysts and Catalyst Carriers by Multipoint Krypton Adsorption – Committee D32 on Catalysts

ASTM D5604-96(2012) Standard Test Method for Precipitated Silica – Surface Area by Single Point B.E.T. Nitrogen Adsorption – Committee D11 on Rubber

ASTM D6556-10 Standard Test Method for Carbon Black Total and External Surface Area by Nitrogen Adsorption – Committee D24 on Carbon Black

Pycnometry

ASTM B923-10 Standard Test Method for Metal Powder Skeletal Density by Helium or Nitrogen Pycnometer – Committee B09 on Metal Powder and Metal Powder Products

ASTM C110-11 Standard Test Methods for Physical Testing of Quicklime, Hydrated Lime and Limestone – Committee C07 on Lime

ASTM C604-02(2007)e1 Standard Test Method for True Specific Gravity of Refractory Materials by Gas-Comparison Pycnometry – Committee C08 on Refractories

ASTM D2638-10 Standard Test Method for Real Density of Calcined Petroleum Coke by Helium Pycnometer – Committee D02 on Petroleum Products and Lubricants

ASTM D4892-89(2009) Standard Test Method for Density of Solid Pitch (Helium Pycnometer Method) – Committee D02 on Petroleum Products and Lubricants

ASTM D5550-06 Standard Test Method for Specific Gravity of Soil Solids by Gas Pycnometer – Committee D18 on Soil and Rock

ASTM D5965-02(2007) Standard Test Methods for Specific Gravity of Coating Powders – Committee D01 on Paint and Related Coatings, Materials and Applications

ASTM D6086-09a Standard Test Method for Carbon Black Void Volume (VV) – Committee D24 on Carbon Black

ASTM D6093-97(2011) Standard Test Methods for Percent Volume Nonvolatile Matter in Clear or Pigmented Coatings Using a Helium Gas Pycnometer – Committee D01 on Paint and Related Coatings, Materials and Applications

ASTM D6226-10 Standard Test Method for Open Cell Content of Rigid Cellular Plastics – Committee D20 on Plastics

ASTM D6761-07(2012) Standard Test Method for Determination of Total Pore Volume of Catalysts and Catalyst Carriers – Committee D32 on Catalysts

Particle Size Analysis

Clicking the links below will open a new browser window to the standard on the ASTM.org website

ASTM B330-12 Standard Test Method for Fisher Number of Metal Powders and Related Compounds – Committee B09 on Metal Powders and Metal Powder Products

ASTM B761-06(2011) Standard Test Method for Particle Size Distribution of Metal Powders and Related Compounds by X-Ray Monitoring of Gravity Sedimentation – Committee B09 on Metal Powders and Metal Powder Products

ASTM B822-10 Standard Test Method for Particle Size Distribution of Metal Powders and Related Compounds by Light Scattering – Committee B09 on Metal Powders and Metal Powder Products

ASTM C110-11 Standard Test Methods for Physical Testing of Quicklime, Hydrated Lime and Limestone – Committee C07 on Lime

ASTM C690-09 Standard Test Method for Particle Size Distribution of Alumina or Quartz Powders by Electrical Sensing Zone Technique – Committee C21 on Whitewares and Related Products

ASTM C958-92(2007) Standard Test Method for Particle Size of Alumina or Quartz by X-Ray Monitoring of Gravity Sedimentation – Committee C21 on Whitewares and Related Products

ASTM C1070-01(2007) Standard Test Method for Determining Particle Size Distribution of Alumina or Quartz by Laser Light Scattering – Committee C28 on Advanced Ceramics

ASTM D4438-85(2007) Standard Test Method for Particle Size Distribution of Catalytic Material by Electronic Counting – Committee D32 on Catalysts

ASTM D4464-10 Standard Test Method for Particle Size of Catalytic Materials by Laser Light Scattering – Committee D32 on Catalysts

ASTM D5861-07 Standard Guide for Significance of Particle Size Measurements of Coating Powders – Committee D01 on Paint and Related Coatings, Materials and Applications

ASTM E2490-09 Standard Guide for Measurement of Particle Size Distribution of Nanomaterials in Suspension by Photon Correlation Spectroscopy (PCS) – Committee E56 on Nanotechnology

ASTM F577-03(2009) Standard Test Method for Particle Size Measurement of Dry Toners – Committee F05 on Business Imaging Products

New Test Method for Particle Size Distribution of Advanced Ceramics by X-Ray Monitoring of Gravity Sedimentation – **Committee C28 on Advanced Ceramics**

ASTM F2149-01(2007) Standard Test Method for Automated Analysis of Cells – the Electrical Sensing Zone Method of Enumerating and Sizing Single Cell Suspensions – Committee F04 on Medical and Surgical Materials and Devices

Mercury Intrusion

ASTM D4284-12 Standard Test Method for Determining Pore Volume Distribution of Catalysts and Catalyst Carriers by Mercury Intrusion Porosimetry – Committee D32 on Catalyst

ASTM D4404-10 Standard Test Method for Determination of Pore Volume and Pore Volume Distribution of Soil and Rock by Mercury Porosimetry – Committee D18 on Soil and Rock

