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Standard Test Sieve, ASTM E11 Specification for Woven Wire Test Sieve Cloth and Test Sieves

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Committee E29 Particle and Spray Characterization

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ASTM INTERNATIONAL HEADQUARTERS

100 BARR HARBOR DRIVE
 P.O. BOX C700
 WEST CONSHOHOCKEN, PA 19428-2959
 USA

Tel +1.610.832.9500

Web go.astm.org

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Formed in 1969, ASTM International Committee E29 on Particle and Spray Characterization develops standard test methods, practices and specifications for characterizing solid and liquid particles. The committee, with a membership of more than 60 technical experts, oversees 24 international standards that cover various topics related to particle and spray characterization such as sieves, sieving methods, screening media, non-sieving methods and liquid particle measurement. E29's standard specification for wire cloth sieves is one of the most referenced ASTM standards. Committee E29 includes three technical subcommittees that oversee 24 standards published in Volume 14.02 of the *Annual Book of ASTM Standards*.

E29 SUBCOMMITTEES AND STANDARDS

Committee E29 includes three technical subcommittees that oversee 24 standards published in Volume 14.02 of the *Annual Book of ASTM Standards*.

SUBCOMMITTEE E29.01 ON SIEVES, SIEVING METHODS AND SCREENING MEDIA

Scope

Development of standards for test sieves and screening material for both test sieving and production purposes; development of practices for sampling and measurement of particles using screens

E11 — Specification for Woven Wire Test Sieve Cloth and Test Sieves

E161 — Specification for Precision Electroformed Sieves

E323 — Specification for Perforated-Plate Sieves for Testing Purposes

E454 — Specification for Industrial Perforated Plate and Screens (Square Opening Series)

E674 — Specification for Industrial Perforated Plate and Screens (Round Opening Series)

E1638 — Terminology Relating to Sieves, Sieving Methods, and Screening Media

E2016 — Specification for Industrial Woven Wire Cloth

E2427 — Test Method for Acceptance by Performance Testing for Sieves

E2814 — Specification for Industrial Woven Wire Filter Cloth

E3278 — Standard Test Method for Bubble Point Pressure of Woven Wire Filter Cloth



E3315 — Specification for Certification of Metallic Materials

SUBCOMMITTEE E29.02 ON NON-SIEVING METHODS

Scope

Standardization of the various areas of non-sieve measurement of particle size distribution, shape, and concentration of solid and liquid particles and emulsions, including sampling, sample preparation, calibration materials, calibration methods, analytical procedures, appropriate definitions and nomenclature, data analysis and presentation

E799 — Practice for Determining Data Criteria and Processing for Liquid Drop Size Analysis

E1260 — Test Method for Determining Liquid Drop Size Characteristics in a Spray Using Optical Nonimaging Light-Scattering Instruments

E1458 — Standard Test Method for Calibration Verification of Laser Diffraction Particle Sizing Instruments Using Photomask Reticles

E1617 — Practice for Reporting Particle Size Characterization Data

E1620 — Terminology Relating to Liquid Particles and Atomization

E2589 — Terminology Relating to Nonsieving Methods of Powder Characterization

E2651 — Guide for Powder Particle Size Analysis

E2776 — Standard Guide for Correlation of Results of Solid Particle Size Measurement Instruments

- Manometer
- Coarse Regulator Supply pressure to ~5 psi
- Mesh sample
- Fixture with Mesh
- Fine Regulator ~5 psi to test pressure (inches of water)

Test fixture image shows supply air/gN₂ entering the system into a coarse regulator which drops the pressure to approx. 5 psi. This allows steady inlet pressure to the fine regulator which further drops system pressure into the "inches of water" range suitable for bubble point testing. Pressure exits the fine regulator and is applied to the test fixture which houses the unit under test, which is the woven wire screen/mesh/fabric of interest. A differential pressure manometer monitors the test pressure, relative to atmospheric pressure, while a test operator observes the initial bubble point stream.

E2872 — Guide for Determining Cross-Section Averaged Characteristics of a Spray Using Laser-Diffraction Instruments in a Wind Tunnel Application

E2980 — Standard Test Methods for Estimating Average Particle Size of Powders Using Air Permeability

E3338 — Standard Guide for Size and Shape of Solid Particles, Liquid Droplets, and Gas Bubbles, Dynamically Conveyed, Using a Dynamic Imaging Analyzer

E3340 — Standard Guide for Development of Laser Diffraction Particle Size Analysis Methods for Powder Materials

E3427 — Standard Guide for Measuring Intensity, Polydispersity, Size, Zeta Potential, Molecular Weight, and Concentration of Nanoparticles in Liquid Suspension Using Laser-Amplified Detection/Power Spectrum Analysis (LAD/PSA) Technology

E3520 — Standard Guide for Measuring the Stability of Concentrated Colloidal Dispersions of Nanoparticles Under Gravity Sedimentation Using Static Multiple Light Scattering (SMLS)

SUBCOMMITTEE E29.03 ON INTERNATIONAL COOPERATION ON PARTICLE AND SPRAY CHARACTERIZATION

Scope

To provide liaison between E29 and international bodies.

MEETINGS

ASTM Committee E29 meets twice a year, in April and October, with approximately 15 members attending over two days of technical meetings.