

## Meetings

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

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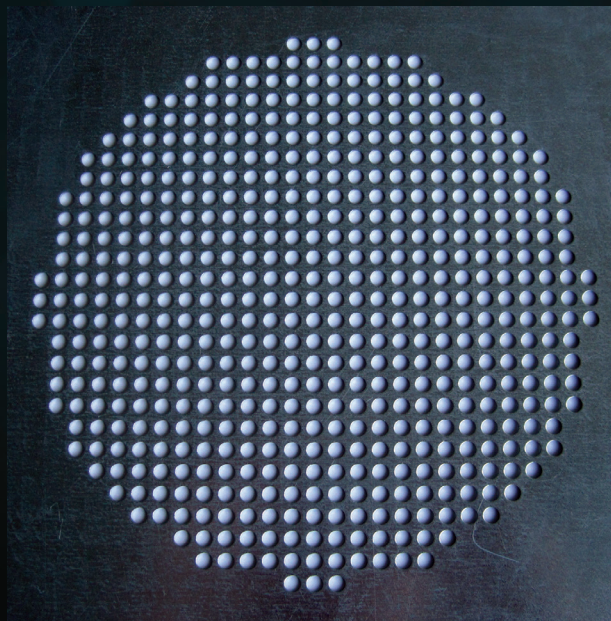
Standard Test Sieve, ASTM E11 Specification for Woven Wire Test Sieve Cloth and Test Sieves.

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Round Opening Perforated Plate Screen for use in a Test Sieve Application.

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## Committee E29 Particle and Spray Characterization

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 65 technical experts, oversees 23 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 wirecloth sieves is one of the most referenced ASTM standards.

Committee E29 includes three technical subcommittees that oversee 23 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 23 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

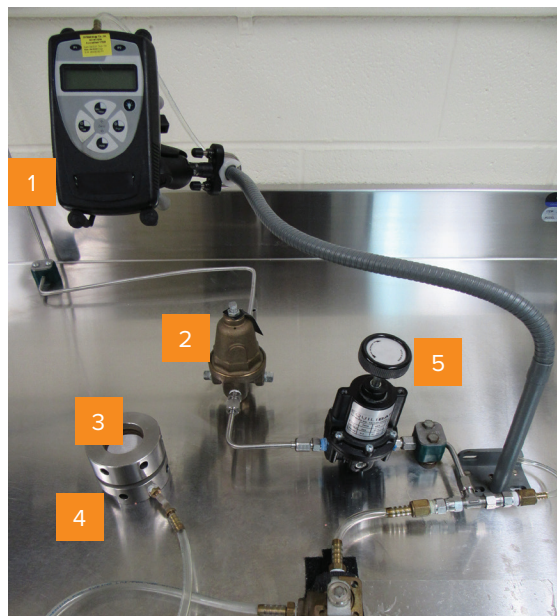
**E2016** — Specification for Industrial Woven Wire Cloth

**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



▲ Bubble Point Pressure of Woven Wire Filter Cloth

1. Manometer
2. Coarse Regulator Supply pressure to ~5 psi
3. Mesh sample
4. Fixture with Mesh
5. 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.

## 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

**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

## Subcommittee E29.03 on International Cooperation on Particle and Spray Characterization

#### Scope

To provide liaison between E29 and international bodies.



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