



Designation: **E11—20 E11 – 22**

## Standard Specification for Woven Wire Test Sieve Cloth and Test Sieves<sup>1</sup>

This standard is issued under the fixed designation E11; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reappraisal. A superscript epsilon ( $\epsilon$ ) indicates an editorial change since the last revision or reappraisal.

*This standard has been approved for use by agencies of the U.S. Department of Defense.*

### 1. Scope\*

1.1 This document specifies the technical requirements for; the woven wire test sieve cloth (sieve cloth) used in test sieves, the construction of test sieves, standard and non-standard test sieve frame sizes, and test procedures used to inspect sieve cloth and the test sieves. This specification applies to test sieves manufactured with sieve cloth having a nominal aperture size ranging from 125 millimetres (mm) down to 20 micrometres ( $\mu\text{m}$ ).

1.2 Additional reference information can be found in Specifications **E161**, **E323**, **E2016**, and in Test Methods **C430** and **E2427**.

1.3 The values stated in SI units shall be considered standard for the dimensions of the sieve cloth openings and the wire diameters used in the sieve cloth. The values stated in inch-pound units shall be considered standard with regard to the sieve frames, pans, and covers.

1.4 *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety, health, and environmental practices and determine the applicability of regulatory limitations prior to use.*

1.5 *This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.*

### 2. Referenced Documents

#### 2.1 ASTM Standards:<sup>2</sup>

**C430** Test Method for Fineness of Hydraulic Cement by the 45- $\mu\text{m}$  (No. 325) Sieve

**E161** Specification for Electroformed Material and Test Sieves

**E323** Specification for Perforated-Plate Sieves for Testing Purposes

**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

#### 2.2 ASTM Manual:<sup>2</sup>

**Manual 32** Test Sieving Methods: Guidelines for Establishing Sieve Analysis Procedures; 5<sup>th</sup> Edition

<sup>1</sup> This specification is under the jurisdiction of ASTM Committee E29 on Particle and Spray Characterization and is the direct responsibility of Subcommittee E29.01 on Sieves, Sieving Methods, and Screening Media.

Current edition approved April 1, 2020/February 1, 2022. Published April 2020/May 2022. Originally approved in 1925. Last previous edition approved in 2017/2020 as E11—17/E11 – 20. DOI: 10.1520/E0011-20-10.1520/E0011-22.

<sup>2</sup> For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For Annual Book of ASTM Standards volume information, refer to the standard's Document Summary page on the ASTM website.

\*A Summary of Changes section appears at the end of this standard

2.3 *Federal Standard*:<sup>3</sup>

Fed. Std. No. 123 Marking for Shipment (Civil Agencies)

2.4 *Military Standard*:<sup>3</sup>

MIL-STD-129 Marking for Shipment and Storage

2.5 *ISO Standard*:<sup>4</sup>

ISO 3310-1 Test Sieves—Technical Requirements and Testing – Part 1: Test Sieves of Metal Wire Cloth

### 3. Terminology

3.1 *Definitions*—Additional terms can be found in Terminology E1638.

3.1.1 *aperture, n*—the dimension defining an opening in a screening surface.

3.1.2 *backing cloth, n*—a wire mesh support layer used directly under the sieve cloth with an opening coarser than the sieve designation.

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<sup>3</sup> Available from Standardization Documents Order Desk, DODSSP, Bldg. 4, Section D, 700 Robbins Ave., Philadelphia, PA 19111-5098, <http://www.dodssp.daps.mil>.

<sup>4</sup> Available from American National Standards Institute (ANSI), 25 W. 43rd St., 4th Floor, New York, NY 10036, <http://www.ansi.org>.