



Designation: E11 – 22

Standard Specification for Woven Wire Test Sieve Cloth and Test Sieves¹

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 reapproval. A superscript epsilon (ϵ) indicates an editorial change since the last revision or reapproval.

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

1. Scope²

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 (μm).

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:³
 - C430 Test Method for Fineness of Hydraulic Cement by the 45- μm (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:⁴
 - Manual 32 Sieving Methods; Guidelines for Establishing Sieve Analysis Procedures; 5th Edition
- 2.3 Federal Standard:⁵
 - Fed. Std. No. 123 Marking for Shipment (Civil Agencies)
- 2.4 Military Standard:⁶
 - MIL-STD-129 Marking for Shipment and Storage
- 2.5 ISO Standard:⁷
 - 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 dimension.

¹ 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.

² Available from Standardization Documents Order Desk, DODDSEP, Bldg. 4, Section D, 700 Robbins Ave., Philadelphia, PA 19111-5098, http://www.doddsdep.com.

³ Available from American National Standards Institute (ANSI), 25 W. 43rd St., 4th Floor, New York, NY 10018, http://www.ansi.org.

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**ASTM International, American Society
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A red circular graphic element with a gradient, partially overlapping the right side of the grey text box.

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An Introduction to Specifications for Mass Concrete for Professional Engineers J. Paul Guyer, P.E., R.A., 2024-07-14 Introductory technical guidance for Professional Engineers and construction managers interested in specifications for mass concrete construction Manual of Geotechnical Laboratory Soil Testing Bashir Ahmed Mir, 2021-10-03 Manual of Geotechnical Laboratory Soil Testing covers the physical index and engineering properties of soils including compaction characteristics optimum moisture content permeability coefficient of hydraulic conductivity compressibility characteristics and shear strength cohesion intercept and angle of internal friction Further this manual covers data collection analysis computations additional considerations sources of error precautionary measures and the presentation results along with well defined illustrations for each of the listed tests Each test is based on relevant standards with pertinent references broadly aimed at geotechnical design applications FEATURES Provides fundamental coverage of elementary level laboratory characterization of soils Describes objectives basic concepts general understanding and appreciation of the geotechnical principles for determination of physical index and engineering properties of soil materials Presents the step by step procedures for various tests based on relevant standards Interprets soil analytical data and illustrates empirical relationship between various soil properties Includes observation data sheet and analysis results and discussions and applications of test results This manual is aimed at undergraduates senior undergraduates and researchers in geotechnical and civil engineering Prof Dr Bashir Ahmed Mir is among the senior faculty of the Civil Engineering Department of the National Institute of Technology Srinagar and has more than two decades of teaching experience Prof Mir has published more than 100 research papers in international journals and conferences chaired technical sessions in international conferences in India and throughout the world and provided consultancy services to more than 150 projects of national importance to various government and private agencies Mineral Admixtures in Cement and Concrete Jayant D. Bapat, 2012-08-06 Written to meet the requirements of engineers working in construction and concrete manufacturing Mineral Admixtures in Cement and Concrete focuses on how to make more workable and durable concrete using mineral admixtures In particular it covers pulverized fuel ash PFA blast furnace slag BFS silica fume SF rice husk ash RHA and metakaolin MK as well as some new admixtures currently under investigation For each mineral admixture the book looks at manufacturing and processing physical characteristics chemical and mineralogical composition quality control and reported experiences It also examines the provisions of national standards on the admixture s addition to cement and concrete References to microstructures and chemistry are kept to a minimum and only discussed to the extent necessary to help readers apply the admixtures in practice The book also addresses hydration presenting the relevant chemistry and detailing the impact of adding mineral admixtures to concrete A chapter on strength and durability explains the mechanisms models and standards related to concrete deterioration and how to mitigate carbonation alkali aggregate reactions chloride attack

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1955 Book of ASTM Standards Including Tentatives (a Triennial Publication). American Society for Testing and Materials,1956 **Annual Book of ASTM Standards** ASTM International,American Society for Testing and Materials,2003 *Annual Book of ASTM Standards* American Society for Testing and Materials,1982 ASTM Standards in Building Codes American Society for Testing and Materials,1986 **ASABE Standards** American Society of Agricultural and Biological Engineers,2006 **Los Angeles City Building Code, Authorized, Edited, and Proofread by the Los Angeles Dept. of Building and Safety** Los Angeles (Calif.),1959 Book of ASTM Standards Including Tentatives American Society for Testing Materials,1960 **Standards and Specifications for Nonmetallic Minerals and Their Products** John Quayle Cannon,1930 *USA Standards* American National Standards Institute,1982 **Industrial Standardization and Commercial Standards Monthly** ,1940

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Book of A.S.T.M. Standards, with Related Material American Society for Testing and Materials,1968 **Quarterly Bulletin** Canadian Standards Association,1927 **ASTM Standards on Cement (with Related Information)** American Society for Testing Materials. Committee C-1 on Cement,1960 Highway Materials Edward Ezra Bauer,1928 **Industrial Standardization** ,1940

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web determine the required pipe size of each section and outlet of the piping system shown in figure a 6 1 with a designated pressure drop of 0.5 inch w.c. 125 pa using the longest length method the gas to be used has 0.60 specific gravity and a

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