



Standard Test Method for Sampling Chrysotile Asbestos¹

This standard is issued under the fixed designation D2590/D2590M; 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.

^{ε1} NOTE—Units information was editorially corrected in February 2012.

1. Scope

1.1 This test method covers procedures for taking a composite or a master composite sample, at the mine or at the factory or from a consignment, of a lot of milled asbestos fiber used as raw material in the chrysotile asbestos industry, conditioning this sample and reducing it in quantity through a series of steps to provide a relatively small test specimen of loose asbestos fibers, representative of the lot and suitable for the determination of a single property.

1.2 This sampling method is suitable for taking test specimens of chrysotile asbestos for Test Methods: [C1119](#), [C1120](#), [C1121](#), [C1122](#), [C1123](#), [C1124](#), [C1125](#), [C1162](#), [D1118](#), [D2589](#), [D2752](#), [D2946](#), [D2947](#), [D2985](#), [D2987](#), [D3639](#), [D3752](#) and [D3880](#).

1.3 Test Method [D3879](#) covers the sampling of amphibole asbestos fibers.

1.4 The values stated in either SI units or inch-pound units are to be regarded separately as standard. The values stated in each system may not be exact equivalents; therefore, each system shall be used independently of the other. Combining values from the two systems may result in non-conformance with the standard.

1.5 *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 and health practices and determine the applicability of regulatory limitations prior to use.*

2. Referenced Documents

2.1 ASTM Standards:²

[C1119](#) Test Method for Vacuum Drainage of Asbestos-Cement Mixes

¹ This test method is under the jurisdiction of ASTM Committee [C17](#) on Fiber-Reinforced Cement Products and is the direct responsibility of Subcommittee [C17.03](#) on Asbestos - Cement Sheet Products and Accessories.

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² 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.

[C1120](#) Test Method for Wash Test of Asbestos

[C1121](#) Test Method for Turner and Newall (T and N) Wet-Length Classification of Asbestos

[C1122](#) Test Method for Wet Volume of Asbestos

[C1123](#) Test Method for Compressibility and Recovery of Asbestos

[C1124](#) Test Method for Kerosene Retention of Asbestos

[C1125](#) Test Method for Penetration Index of Asbestos

[C1162](#) Test Method for Loose Density of Asbestos

[D1118](#) Test Method for Magnetic Rating of Asbestos Fiber and Asbestos Textiles

[D2589](#) Test Method for McNett Wet Classification of Dual Asbestos Fiber

[D2752](#) Test Methods for Air Permeability of Asbestos Fibers

[D2946](#) Terminology for Asbestos and Asbestos-Cement Products

[D2947](#) Test Method for Screen Analysis of Asbestos Fibers

[D2985](#) Test Method for Color of Asbestos

[D2987](#) Test Method for Moisture Content of Asbestos Fiber

[D3639](#) Test Method for Classification of Asbestos by Quebec Standard Test

[D3752](#) Test Method for Strength Imparted by Asbestos to a Cementitious Matrix

[D3879](#) Test Method for Sampling Amphibole Asbestos (Withdrawn 2009)³

[D3880](#) Test Method for Asbestos Strength Units

2.2 ASTM Adjuncts:

Laboratory Filter Drawings⁴

3. Terminology

3.1 Definitions:

3.1.1 *bag*—any quantity of asbestos fiber corresponding to one particular grade that is packed in a suitable container.

NOTE 1—In the asbestos industry, the typical quantity contained in a bag is 45 kg [100 lb approximately].

3.1.2 *composite sample*—a set of unit samples of asbestos fiber (drawn systematically or at random) taken from a lot,

³ The last approved version of this historical standard is referenced on www.astm.org.

⁴ Available from ASTM International Headquarters. Order Adjunct No. [ADJD2590](#).