



Standard Test Method for Evaluating Carpet Embedded Dirt Removal Effectiveness of Residential Central Vacuum Cleaning Systems¹

This standard is issued under the fixed designation F 1284; 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.

1. Scope

1.1 This test method is applicable to residential central vacuum cleaning systems intended for cleaning carpets.

1.2 This test method applies only to embedded dirt removal from carpets.

1.3 *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

D 75 Practice for Sampling Aggregates

E 11 Specification for Wire Cloth and Sieves for Testing Purposes

F 608 Test Method for Evaluation of Carpet Embedded Dirt Removal Effectiveness of Household/Commercial Vacuum Cleaners

F 655 Specification for Test Carpets and Pads for Vacuum Cleaner Testing

F 922 Test Method for Motor Life Evaluation of an Electric Motorized Nozzle

F 1038 Test Method for Motor Life Evaluation of a Canister, Hand-held, Stick, and Utility Type Vacuum Cleaner Without a Driven Agitator

F 1334 Test Method for Determining A-Weighted Sound Power Level of Vacuum Cleaners

F 1409 Test Method for Straight Line Movement of Vacuum Cleaners While Cleaning Carpets

3. Terminology

3.1 Definitions of Terms Specific to This Standard:

3.1.1 *cleaning ability, n*—the potential of a vacuum cleaner to remove dirt from a surface (sometimes referred to in the industry as *cleanability, dry*).

3.1.2 *model, n*—the designation of a group of vacuum cleaners having identical, mechanical and electrical construction with only cosmetic or nonfunctional differences.

3.1.3 *population, n*—the total of all units of a particular model vacuum cleaner being tested.

3.1.4 *sample, n*—a group of vacuum cleaners taken from a large collection of vacuum cleaners of one particular model, which serves to provide information that may be used as a basis for making a decision concerning the larger collection.

3.1.5 *test run, n*—the definitive procedure that produces a singular measured result.

3.1.6 *test unit, n*—a single vacuum cleaner of the model being tested.

4. Significance and Use

4.1 This test method provides a laboratory test for determining the relative carpet dirt removal effectiveness of residential central vacuum cleaning systems when tested under standard conditions and on representative types of carpets.

4.2 This laboratory test method may not give a representation of carpet embedded dirt cleaning effectiveness in the home.

4.3 In order to provide a uniform basis for measuring performance as described in 1.1, standardized test carpets and a standardized test dirt are employed in this procedure.

4.4 The results reflect a non-loaded cleaning capability and may not be representative of cleaning capabilities under dirt loading conditions.

¹ This test method is under the jurisdiction of ASTM Committee F11 on Vacuum Cleaners and is the direct responsibility of Subcommittee F11.21 on Cleanability.

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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.