Method of Testing General Ventilation Air-Cleaning Devices for Removal Efficiency by Particle Size

Approved by ASHRAE on December 30, 2016, and by the American National Standards Institute on December 30, 2016.

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FOREWORD

ISO 12103-1, “A2 Fine Test Dust,” has formally replaced SAE Standard J726 test dust. Addendum i updates the standard to reflect this change.

Note: In this addendum, changes to the current standard are indicated in the text by underlining (for additions) and strikethrough (for deletions) unless the instructions specifically mention some other means of indicating the changes.

Addendum i to Standard 52.2-2012

Modify Section 6.2, “Loading Dust,” as follows.

6.2.1 The loading dust for testing the filtration device shall be composed, by weight, of 72% SAE Standard J726 ISO 12103-1, A2 Fine Test Dust test dust (fine) (Reference 6tbd), 23% powdered carbon, and 5% milled cotton linters.

[...]

6.2.4 A typical 2000 g batch of test dust shall be mixed, until homogeneous, in a blender as shown in Figure 6-1 or in a similar blending device as follows:

a. Dry approximately 1500 g of the SAE Standard J726 fine test dust ISO 12103-1, A2 Fine Test Dust, at 104°C (220°F) for 30 minutes. Weigh 1440 ± 1 g of this dust and place in a clean blender.

Delete footnote 38.

38. The SAE standard test dust may soon be superseded by ISO Standard 12103 (see Informative Appendix G, Reference 15), but the dust is the same. At present the ISO standard is available in a working draft only.
ASHRAE is concerned with the impact of its members’ activities on both the indoor and outdoor environment. ASHRAE’s members will strive to minimize any possible deleterious effect on the indoor and outdoor environment of the systems and components in their responsibility while maximizing the beneficial effects these systems provide, consistent with accepted standards and the practical state of the art.

ASHRAE’s short-range goal is to ensure that the systems and components within its scope do not impact the indoor and outdoor environment to a greater extent than specified by the standards and guidelines as established by itself and other responsible bodies.

As an ongoing goal, ASHRAE will, through its Standards Committee and extensive technical committee structure, continue to generate up-to-date standards and guidelines where appropriate and adopt, recommend, and promote those new and revised standards developed by other responsible organizations.

Through its Handbook, appropriate chapters will contain up-to-date standards and design considerations as the material is systematically revised.

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ASHRAE’s primary concern for environmental impact will be at the site where equipment within ASHRAE’s scope operates. However, energy source selection and the possible environmental impact due to the energy source and energy transportation will be considered where possible. Recommendations concerning energy source selection should be made by its members.