

Designation: C1304 - 08 (Reapproved 2013) C1304 - 18

# Standard Test Method for Assessing the Odor Emission of Thermal Insulation Materials<sup>1</sup>

This standard is issued under the fixed designation C1304; 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 ( $\varepsilon$ ) indicates an editorial change since the last revision or reapproval.

### 1. Scope

- 1.1 This test method covers a laboratory procedure for subjective determination of the existence, nature, and degree of odors present in all types of thermal insulation materials. This test method is not intended to evaluate the air quality aspects that any such odors may present.
- 1.2 The standard test condition for material evaluated under this test method is  $149 \pm 1.8^{\circ}F$  (65 ± 1°C). Standard specifications referencing this test method may require other test conditions.
- 1.3 The values stated in inch-pound units are to be regarded as standard. The values given in parentheses are mathematical conversions to SI units that are provided for information only and are not considered standard.
- 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-safety, health, and healthenvironmental 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>
C168 Terminology Relating to Thermal Insulation

# **Document Preview**

### 3. Significance and Use

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3.1 Thermal insulating materials that produce objectionable odors could cause discomfort to persons occupying a structure insulated with such materials. Therefore, an examination to determine the odor potential of a particular insulation is desirable.

## 4. Apparatus

4.1 Stainless Steel Containers or Glass Jars, with all-metallic lids with air-tight seals are required. Containers shall not produce discernible odors of their own. The volume of the container shall be 2.5 to 3 times the volume of the test specimen. Transparent containers will be wrapped with aluminum foil to eliminate visual bias.

Note 1—See 5.2 for the minimum mass requirement for the test specimen, which influences test container volume.

- 4.2 Oven, capable of maintaining a temperature of 149  $\pm$  1.8°F (65  $\pm$  1°C).
- 4.3 *Odor Assessment Panel*, consisting of five persons who have demonstrated the ability to detect odors both accurately and consistently. A guideline for selection of panelists is given in *ASTM STP 758*.<sup>3</sup>
  - 4.4 Odor- and Draft-Free Area, where the required oven is immediately accessible.

<sup>&</sup>lt;sup>1</sup> This test method is under the jurisdiction of ASTM Committee C16 on Thermal Insulation and is the direct responsibility of Subcommittee C16.31 on Chemical and Physical Properties.

Current edition approved Sept. 1, 2013 Sept. 1, 2018. Published January 2014 September 2018. Originally approved in 1995. Last previous edition approved in 2008 2013 as C1304C1304 – 08 (2013).—08. DOI: 10.1520/C1304-08R13.10.1520/C1304-18.

<sup>&</sup>lt;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.

<sup>&</sup>lt;sup>3</sup> "Guidelines for the Selection and Training of Sensory Panel Members," ASTM STP 758, ASTM, 1981.