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ASTM E104-02 Standard Practice for Maintaining Constant Relative Humidity by Means of Aqueous Solutions

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Abbreviation

ASTM E104-02

Valid from

01/01/2002

Information provider

American Society of Testing and Materials

Author

American Society of Testing and Materials

Information type

ASTM Standard

Format

PDF

Cited By

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Cites

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Description

This practice describes one method for generating constant relative humidity (rh) environments in relatively small containers. It is applicable for obtaining constant relative humidities ranging from dryness to near saturation at temperatures spanning from 0 to 50 degreesC.

Scope

1.1 This practice describes one method for generating constant relative humidity (rh) environments in relatively small containers.

1.2 This practice is applicable for obtaining constant relative humidities ranging from dryness to near saturation at temperatures spanning from 0 to 50 degreesC.

1.3 This practice is applicable for closed systems such as environmental conditioning containers and for the calibration of hygrometers.

1.4 This practice is not recommended for the generation of continuous (flowing) streams of constant humidity unless precautionary criteria are followed to ensure source stability.

1.5 Caution-Saturated salt solutions are extremely corrosive, and care should be taken in their preparation and handling. There is also the possibility of corrosive vapors in the atmospheres over the saturated salt solutions.

1.6 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.

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This resource is cited by:

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This document is CITED BY:

- [E2/AS1 \(Third Edition, Amendment 7\)](#)

ASTM E104-02 is cited by Acceptable Solution E2/AS1: External Moisture from 01/08/2011

- [E2/AS1 \(Third Edition, Amendment 5, Errata 2\)](#)

ASTM E104-02 is cited by Acceptable Solution E2/AS1: External Moisture from 01/08/2011

- [E2/AS1 \(Third Edition, Amendment 9\)](#)

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- [E2/AS1 \(Third Edition, Amendment 5\)](#)

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- [E2/AS1 \(Third Edition, Amendment 6\)](#)

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- [E2/AS1 \(Third Edition, Amendment 8\)](#)

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- [CP01:2011 \(Errata 1 January 2015\)](#)

ASTM E104-02 is cited by Code of Practice for Weathertight Concrete and Concrete Masonry Construction

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This document CITES:

Other

- [ASTM D1193 - 99e1](#)

ASTM E104-02 cites ASTM D1193 - 99e1 Standard Specification for Reagent Water

- [ASTM D1356 - 00a](#)

ASTM E104-02 cites ASTM D1356 - 00a Standard Terminology Relating to Sampling and Analysis of Atmospheres

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