



Designation: **C1083 – 06 (Reapproved 2011) C1083 – 06 (Reapproved 2015)**

Standard Test Method for Water Absorption of Cellular Elastomeric Gaskets and Sealing Materials¹

This standard is issued under the fixed designation C1083; 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 covers those cellular elastomeric compounds that are manufactured in preformed shapes such as gaskets, and that are used as compression seals for glazing purposes and as sealing materials in other applications in building construction.

1.2 The values stated in SI units are to be regarded as the standard. The values given in parentheses are provided for information purposes only.

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

[C717 Terminology of Building Seals and Sealants](#)

[D3182 Practice for Rubber—Materials, Equipment, and Procedures for Mixing Standard Compounds and Preparing Standard Vulcanized Sheets](#)

3. Terminology

3.1 *Definitions*—Refer to Terminology [C717](#) for the following terms used in this test method: cell, compound, compression gasket, elastomer, elastomeric, gasket, glazing, seal, and sealing material.

4. Significance and Use

4.1 This test method will quantify the water absorption characteristics of cellular elastomeric gaskets and sealing materials. It is a test that enables the specifier to exercise engineering judgment in the selection of materials.

5. Apparatus

5.1 *Vessel*, of potable water of dimensions appropriate to permit proper submergence of the specimens as described in Section 9.

5.2 *Stand and Clamps*, to hold specimens.

5.3 *Balance*, triple-beam, accurate to 0.01 g.

5.4 *Paper*, lint-free blotting.

6. Comparison to Other Standards

6.1 The ASTM Committee with jurisdiction over this standard¹ is not aware of any comparable standards published by other organizations.

¹ This test method is under the jurisdiction of ASTM Committee [C24](#) on Building Seals and Sealants and is the direct responsibility of Subcommittee [C24.73](#) on Compression Seal and Lock Strip Gaskets.

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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.