



Designation: **F148–02 (Reapproved 2013) F148 – 13**

Standard Test Method for Binder Durability of Cork Composition Gasket Materials¹

This standard is issued under the fixed designation F148; 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 three procedures for determination of the binder durability of cork-containing materials.

1.2 *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

[D471 Test Method for Rubber Property—Effect of Liquids](#)

3. Terminology

3.1 *Definitions:*

3.1.1 *disintegration*—the loss of binder cohesiveness resulting in the specimen being reduced to separated cork granules.

4. Summary of Test Method

4.1 ~~Specimen~~ Specimens of the material are subjected to specific fluids to determine the chemical durability of the binder by visual examination for disintegration.

5. Significance and Use

5.1 This test method is designed to measure the chemical cure of the binder used in the manufacture of cork compositions. The results of this test method can be used only as a guide for its intended service in elevated temperature and environmental conditions.

6. Apparatus

6.1 *Die*, 645.2 mm² (1 in.²) in area, circular (28.6 mm (1.13 in.) in diameter).

6.2 *Reflux Condenser and Erlenmeyer Flask*, ground-glass, 250-mL capacity.

6.3 *Metal Containers with Lids*.

6.4 *Circulating Hot-Air Oven*, maintained at 100 ± 1°C (212 ± 2°F).

6.5 *Laboratory Hood with Strong Draft*.

7. Hazards

7.1 Conduct this test method inside a laboratory hood with a strong draft.

7.2 Place several glass boiling chips or stones into the Erlenmeyer flask to ensure smooth boiling where needed.

7.3 The tester conducting this test method should be equipped with suitable eye protection, acid-resistant gloves, and apron or laboratory coat.

7.4 The Erlenmeyer flask should be thoroughly cooled before handling so as to prevent the possibility of a burn.

¹ This test method is under the jurisdiction of ASTM Committee F03 on Gaskets and is the direct responsibility of Subcommittee F03.40 on Chemical Test Methods. Current edition approved ~~May 1, 2013~~ July 1, 2013. Published ~~May 2013~~ August 2013. Originally approved in 1972. Last previous edition approved in ~~2007~~ 2013 as F148 – 02 (2007) (2013). DOI: ~~10.1520/F0148-02R13~~ 10.1520/F0148-13.

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.