



**Designation: F148—95 Designation: F 148 – 02 (Reapproved 2007)**

## Standard Test Method for Binder Durability of Cork Composition Gasket Materials<sup>1</sup>

This standard is issued under the fixed designation F 148; 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 ( $\epsilon$ ) 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. Terminology

2.1 *Definition:*

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

### 3. Summary of Test Method

~~3.1A specimen of the material is subjected to specific fluids that discriminate as to the chemical durability of the binder by reflecting degrees of resistance to disintegration.~~

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

### 4. Significance and Use

4.1 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.

### 5. Apparatus

5.1 *Die*, 645.2 mm<sup>2</sup> (1 in.<sup>2</sup>) in area, circular (28.6 mm (1.13 in.) in diameter).

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

5.3 *Metal Containers with Lids*.

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

5.5 *Laboratory Hood with Strong Draft*.

### 6. Hazards

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

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

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

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

### 7. Test Specimens

7.1 Test specimens shall be circular disks approximately 28 mm (1.1 in.) in diameter.

7.2 Test specimen thickness shall be as agreed upon between the producer and the user. A nominal thickness of 3.175 mm (0.125 in.) is commonly used.

<sup>1</sup> This test method is under the jurisdiction of ASTM Committee F3F03 on Gaskets and is the direct responsibility of Subcommittee F03.40 on Chemical Test Methods

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