



Designation: C 267 – 9701

Standard Test Methods for Chemical Resistance of Mortars, Grouts, and Monolithic Surfacings and Polymer Concretes¹

This standard is issued under the fixed designation C 267; 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.

This standard has been approved for use by agencies of the Department of Defense.

1. Scope

1.1 These test methods are intended ~~for use as a relatively rapid test~~ to evaluate the chemical resistance of resin, silica, silicate, sulfur, and hydraulic materials, grouts, monolithic surfacings, and polymer concretes under anticipated service conditions. These test methods provide for the determination of changes in the following properties of the test specimens and test medium after exposure of the specimens to the medium:

- 1.1.1 Weight of specimen,
- 1.1.2 Appearance of specimen,
- 1.1.3 Appearance of test medium, and

1.1.4 Compressive strength of specimens. ~~Note 1—These test methods have been found to be unsatisfactory for evaluation of furan and phenolic mortars in hydrofluoric acid in concentrations above 35 %. Although the mortars may perform well in service, the test specimens generally fail by cracking when tested at such high hydrofluoric acid concentrations by these test methods.~~

1.2 Test Method A outlines the testing procedure generally used for systems containing aggregate less than 0.0625 in. (1.6 mm) in size. Test Method B covers the testing procedure generally used for systems containing aggregate from 0.0625 to 0.4 in. (1.6 to 1.0 mm) in size. Test Method C is used for systems containing aggregate larger than 0.4 in.

1.3 The units stated are to be regarded as standard. The values given in parentheses are for information only.

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 and health practices and determine the applicability of regulatory limitations prior to use.*

2. Referenced Documents

2.1 *ASTM Standards:*

¹ These test methods are under the jurisdiction of ASTM Committee ~~C-3~~ C03 on Chemical-Resistant Nonmetallic Materials and are the direct responsibility of Subcommittee C03.01 on Test Methods.

Current edition approved ~~March Oct.~~ 10, 1997; 2001. Published ~~February~~ 1998; December 2001. Originally published as C 267–59T. Last previous edition ~~C 267–96~~ C 267–97.