



Designation: F1105-03

## Standard Test Method for Designation: F 1105 – 09

### Standard Practice for Preparing Aircraft Cleaning Compounds, Liquid-Type, Temperature-Sensitive, or Solvent-Based, for Storage Stability Testing<sup>1</sup>

This standard is issued under the fixed designation F 1105; 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~~ practice covers the determination of the stability in storage of liquid enzyme-based, terpene-based, and solvent-based chemical cleaning compounds used to clean the exterior surfaces of aircraft.

1.2 The values stated in SI units are to be regarded as the standard. The values given in parentheses are for information 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 *U.S. Government Document:*

Federal Specification PPP-P-704 Pails, Metal Shipping, Steel 1 through 12 Gallons<sup>2</sup>

#### 3. Summary of Test Method—Summary of Practice—

3.1 Storage stability is determined by evaluation of the effect of time, temperature, and environmental conditions on the cleaning compound. Samples used for testing are filled containers taken from the manufacturer's controlled production formulation, packaged, and delivered to the purchaser for normal use.

3.2 The sample container shall be subjected to the specified storage environment for a period of 12 months. The test shall be completed prior to 24 months from date of packaging.

#### 4. Significance and Use

4.1 This ~~test method~~ practice determines the procedure to be used to ensure the long-term storage stability of aircraft cleaning and maintenance products in order to ensure their ability to meet the shelf-life requirements called up in specifications or contract documents. The subsequent testing requirements are detailed in the specification or contract.

#### 5. Sampling

5.1 The sample for storage stability testing shall be taken from a controlled production formula, packaged lot, or batch delivered in a sealed, filled container to the purchaser for use. This sample is normally a 1-gal can conforming to Federal Specification PPP-P-704. This material shall have previously been tested and passed all other specification requirements for qualification or acceptance. The sample container selected for the test shall be kept sealed and unopened for the duration of the test. The sample container shall be durably and legibly marked with the following minimum information:

Storage Stability Test Sample

Supplier  
Formula number

<sup>1</sup> This ~~test method~~ practice is under the jurisdiction of ASTM Committee F07 on Aerospace and Aircraft and is the direct responsibility of Subcommittee F07.07 on Qualification Testing of Aircraft Cleaning Materials.

Current edition approved Mar. 10, 2003. Published March 2003. Originally approved in 1987. Last previous edition approved in 1999 as F1105-95(1999)<sup>1</sup>.

Current edition approved May 15, 2009. Published June 2009. Originally approved in 1987. Last previous edition approved in 2003 as F 1105 – 03.

<sup>2</sup> Available from Standardization Documents Order Desk, Bldg. 4 Section D, 700 Robbins Ave., Philadelphia, PA 19111-5094 Attn: NPODS.