



Designation: F485-02

Standard Test Method for Designation: F 485 – 08

Standard Practice for Effects of Cleaners on Unpainted Aircraft Surfaces¹

This standard is issued under the fixed designation F 485; 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 practice~~ describes the procedure used to determine the effect of cleaners on unpainted aircraft surfaces. Visual observation is used for determining streaking or permanent stains which require polishing to remove.

1.2 The values stated in inch-pound units are to be regarded as the standard. The values given in parentheses are for information.

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: D740~~ *Specification for Methyl Ethyl Ketone*

D 1193 *Specification for Reagent Water*

2.2 *Industry Standards:*²

SAE-AMS-QQ-A-250/13 Aluminum Alloy Alclad 7075, Plate and Sheet

SAE-AMS-T-9046 Titanium and Titanium Alloy, Sheet, Strip, and Plate (Composition AB-1)

3. Significance and Use

3.1 This ~~test method practice~~ is used to ensure that candidate aircraft surface cleaners do not leave a residue which, on drying, would leave a permanent stain requiring polishing to remove.

4. ~~Test Specimens Reagents and Materials~~

4.1 ~~Materials Reagents:~~

4.1.1 ~~Aluminum 7075-T6 Alclad in accordance with industry standard SAE-AMS-QQ-A-250/13.~~

4.1.2 ~~Titanium Alloy 6A14V in accordance with industry standard SAE-AMS-T-9046, Composition AB-1.~~

4.1.3

4.1.1 ~~Reagent water in accordance with Specification D 1193, Type IV.~~

4.1.4 ~~Methyl ethyl ketone in accordance with Specification D740~~

4.1.2 ~~Methyl n-propyl ketone (MPK).~~

4.2 ~~Materials:~~

4.2.1 ~~Aluminum 7075-T6 Alclad in accordance with industry standard SAE-AMS-QQ-A-250/13.~~

4.2.2 ~~Titanium Alloy 6A14V in accordance with industry standard SAE-AMS-T-9046, Composition AB-1.~~

5. Preparation of Test Specimens

5.1 Prepare two panels, each 2 by 6 by 0.020 in. (50 by 152 by 0.51 mm), from alclad aluminum and titanium alloy and clean them with ~~methyl ethyl ketone conforming to Specification D740.~~ n-propyl ketone.

¹ 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.

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² Annual Book of ASTM Standards, Vol 06.04.

² Available from Society of Automotive Engineers (SAE), 400 Commonwealth Dr., Warrendale, PA 15096-0001.