



AEROSPACE STANDARD

AS8993™

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Coefficient of Friction Test Method for Aircraft Flooring and Walkway Surfaces

RATIONALE

FAA Advisory Circular (AC) 25-17A identifies that Military Specification MIL-W-5044C (or MIL-W-5044B), titled "Walkway Compound, Nonslip and Walkway Matting, Nonslip," provides an acceptable test method for measuring dynamic coefficient of friction of floor and walkway surfaces. However, this Military Specification was cancelled in 1998 and is no longer maintained. This Aerospace Standard provides a current source for an equivalent test method for demonstrating the slip-resistant properties of flooring and walkway surfaces.

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1. SCOPE

This AS provides suitable test methods for measuring the dynamic coefficient of friction ("slip resistance" or "sliding friction") of aircraft flooring and walkway surfaces in accordance with 14 CFR and EASA CS 25.793 and 25.810(c). § 25.793 specifies the areas which are likely to become wet in service must have slip-resistant properties, and § 25.810 specifies an escape route must be established from each overwing emergency exit that is covered with a slip-resistant surface.

2. REFERENCES

2.1 Applicable Documents

The following publications form a part of this document to the extent specified herein. The latest issue of SAE publications shall apply. The applicable issue of other publications shall be the issue in effect on the date of the purchase order. In the event of conflict between the text of this document and references cited herein, the text of this document takes precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

2.1.1 SAE Publications

Available from SAE International, 400 Commonwealth Drive, Warrendale, PA 15096-0001, Tel: 877-606-7323 (inside USA and Canada) or +1 724-776-4970 (outside USA), www.sae.org.

AMS3819C Cloths, Cleaning for Aircraft Primary and Secondary Structural Surfaces

2.1.2 Code of Federal Regulations (CFR) Publications

Available from the United States Government Printing Office, 732 North Capitol Street, NW, Washington, DC 20401, Tel: 202-512-1800, www.gpo.gov.

14 CFR Part 25 Airworthiness Standards: Transport Category Airplanes

2.1.3 EASA Publications

Available from European Aviation Safety Agency, Konrad-Adenauer-Ufer 3, D-50668 Cologne, Germany (for visitors and for mail over 1 kg) and Postfach 10 12 53, D-50452 Cologne, Germany (for mail 1 kg or less); Tel: +49 221 8999 000, www.easa.europa.eu.

CS-25 Certification Specification for Large Aeroplanes

2.1.4 FAA Publications

Available from Federal Aviation Administration, 800 Independence Avenue, SW, Washington, DC 20591, Tel: 866-835-5322, www.faa.gov.

AC 25-17A Transport Airplane Cabin Interiors Crashworthiness Handbook

2.1.5 U.S. Government Publications

Copies of these documents are available online at <https://quicksearch.dla.mil>.

FED-STD-601 Federal Test Method Standard: Rubber - Sampling and Testing

ISO 6344 Coated Abrasives - Grain Size Analysis

KK-L-165 Leather, Cattlehide, Vegetable Tanned and Chrome Retanned, Impregnated; and Soles