



AEROSPACE STANDARD	AS5127™	REV. C
	Issued 1997-05 Revised 2018-11 Superseding AS5127B	
(R) Aerospace Standard Test Methods for Aerospace Sealants Methods for Preparing Aerospace Sealant Test Specimens		

RATIONALE

Five-Year Review. Added AMS4377 Magnesium Alloy for Surface Preparation Requirements. Added abrasion to Bare and Clad Aluminum and Aircraft Transparent Surface Preparation. Specified a No. 2B finish for AMS5516 Stainless Steel.

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1. SCOPE

1.1 Form

This standard describes the accepted methods used for preparing aerospace sealant test specimens for qualification and quality conformance or acceptance testing. AS5127/1 and AS5127/2 are to be used in conjunction with this document and the applicable AMS specifications.

1.2 Application

This standard is intended to be used with AMS specifications or other materials specifications which govern the procurement of aerospace sealants.

All test procedures and associated test materials designated in this standard were adopted from current military and consensus material specifications for sealing compounds. Cross-references for equivalent test materials may be obtained using documents such as the SAE AMS Index or the ASTM Metals and Alloys in the Unified Numbering Systems reference manuals.

1.3 Safety - Hazardous Materials

While the materials, methods, applications, and processes described or referenced in this standard may involve the use of hazardous materials, this standard does not address the hazards which may be involved in such use. It is the sole responsibility of the user to ensure familiarity with the safe and proper use of any hazardous materials and to take necessary precautionary measures to ensure the health and safety of all personnel involved. Refer to the specific product Materials Safety Data Sheets (MSDS) or Safety Data Sheet (SDS) for health and safety information.

2. 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 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.

AMS2471	Anodic Treatment of Aluminum Alloys Sulfuric Acid Process, Undyed Coating
AMS2629	Fluid, Jet Reference
AMS3020	Oil, Reference, for "L" Stock Rubber Testing
AMS3021	Fluid, Reference for Testing Di-Ester (Polyol) Resistant Material
AMS3100	Adhesion Promoter For Polysulfide Sealing Compounds
AMS3167	Solvents, Wipe for Cleaning Prior to Application of Primer and Top Coat Materials, or Sealing Compounds
AMS3819	Cloths, Cleaning, For Aircraft Primary and Secondary Structural Surfaces
AMS4037	Aluminum Alloy, Sheet and Plate 4.4Cu - 1.5Mg - 0.60Mn (2024; -T3 Flat Sheet, -T351 Plate) Solution Heat Treated