

AEROSPACE MATERIAL SPECIFICATION

Submitted for recognition as an American National Standard

SAE AMS 3100/1

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ADHESION PROMOTER For Polysulfide Sealing Compounds Non-Halogenated Solvent

1. SCOPE:

- 1.1 Form: This specification covers one type of adhesion promoter in liquid form.
- 1.2 Application: Primarily for use in enhancing the adhesion of polysulfide adhesives or sealant type compounds to MIL-C-27725 integral fuel tank coating or other substrates.

2. APPLICABLE DOCUMENTS: See AMS 3100.

3. TECHNICAL REQUIREMENTS:

- 3.1 Basic Specification: The complete requirements for procuring the adhesion promoter described herein shall consist of this document and the latest issue of the basic specification, AMS 3100.
- 3.2 Material: Shall be a dyed liquid with no halogens in the solvent.
- 3.3 Properties: Adhesion promoter shall have the following properties, determined in accordance with test methods listed in AMS 3100:
- 3.3.1 Color: Adhesion promoter shall be tinted blue and shall impart a stain on the substrate when tested for color.
- 3.3.2 Peel Strength: Shall be as specified in Table I. Acceptance tests shall consist of Tests 1 and 2 only, using MIL-C-27725 coated aluminum alloy panels and either MIL-P-5425 acrylic panels or aged MIL-C-27725 coated aluminum alloy panels.

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3.3.3 Storage Stability:

3.3.3.1 Long-Term Stability: Shall be as specified in Table I, Tests 1 and 2.

3.3.3.2 Short-Term Stability: Shall be as specified in Table I, Tests 1 and 2 after standing for 24 hr $\pm$ 1.

3.3.4 Aging After Application: Shall be as specified in Table I, Tests 1 and 2.

3.3.5 Chemical Control: Infrared spectrogram shall agree with that obtained on the preproduction sample. Any variance from the originally approved sample may be cause for rejection.

3.3.6 Solvent Identification: Solvent composition shall not contain halogenated compounds.

4. QUALITY ASSURANCE PROVISIONS: See AMS 3100.

5. PREPARATION FOR DELIVERY: See AMS 3100.

6. ACKNOWLEDGMENT: See AMS 3100.

7. REJECTIONS: See AMS 3100.

8. NOTES: See AMS 3100.

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