

# AEROSPACE MATERIAL SPECIFICATION

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Superseding AMS 3100/2

## Adhesion Promoter For Polysulfide Sealing Compounds Nonrestricted Solvent

### 1. SCOPE:

#### 1.1 Form:

This specification covers one type of adhesion promoter in the form of a liquid.

#### 1.2 Application:

See AMS 3100.

#### 1.3 Precautions: (R)

AMS 3100/2A may contain halogenated solvents and should not be used on high strength steel or on titanium alloys which will be subjected to temperatures above 450 °F (232 °C) because of their tendency for stress-corrosion cracking.

### 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. Solvent composition may contain halogenated compounds.

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### 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 red and shall impart a red stain on the substrate when tested for color.

3.3.2 Peel Strength: Shall be as specified in Table 1.

3.3.2.1 Acceptance peel strength tests shall consist of either of the following, using as-received adhesion promoter only:

Test 1 - substrate 4.5.2.1.5 and Test 2 - substrates 4.5.2.1.4 and 4.5.2.1.5; or  
Test 1 - substrate 4.5.2.1.3 and Test 2 - substrate 4.5.2.1.4

3.3.3 Storage Stability:

3.3.3.1 Long-Term Stability: Shall be as specified in Table 1, Tests 1 and 2, using substrates 4.5.2.1.3 and 4.5.2.1.5.

3.3.3.2 Short-Term Stability: Shall be as specified in Table 1, Tests 1 and 2, using substrates 4.5.2.1.3 and 4.5.2.1.5 after standing for 168 hours.

3.3.4 Aging After Application: Shall be as specified in Table 1, Tests 1 and 2, using substrates 4.5.2.1.3 and 4.5.2.1.5.

3.3.5 Composition Control: Infrared spectrogram shall agree with that obtained on the preproduction (qualification) sample. Any variance of composition greater than  $\pm 5\%$  from the originally approved sample is not acceptable.

3.3.6 Solvent Identification: Solvent may contain halogenated compounds.

### 4. QUALITY ASSURANCE PROVISIONS:

See AMS 3100.

### 5. PREPARATION FOR DELIVERY:

See AMS 3100.

### 6. ACKNOWLEDGMENT:

See AMS 3100.