

# AEROSPACE MATERIAL SPECIFICATION

Issued JUL 1986  
Revised AUG 1994  
Reaffirmed FEB 2004

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.

SAE Technical Standards Board Rules provide that: "This report is published by SAE to advance the state of technical and engineering sciences. The use of this report is entirely voluntary, and its applicability and suitability for any particular use, including any patent infringement arising therefrom, is the sole responsibility of the user."

SAE reviews each technical report at least every five years at which time it may be reaffirmed, revised, or cancelled. SAE invites your written comments and suggestions.

Copyright © 2004 SAE International

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without the prior written permission of SAE.

#### TO PLACE A DOCUMENT ORDER:

Tel: 877-606-7323 (inside USA and Canada)

Tel: 724-776-4970 (outside USA)

Fax: 724-776-0790

Email: [custsvc@sae.org](mailto:custsvc@sae.org)

#### SAE WEB ADDRESS:

<http://www.sae.org>

### 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.