



AEROSPACE MATERIAL SPECIFICATION

AMS3284™

REV. C

Issued 1999-01

Revised 2017-11

Superseding AMS3284B

(R) Sealing Compound, Low Adhesion, for Removable Panels
and Fuel Tank Inspection Plates

RATIONALE

Five-Year Update. Requirements were made consistent with other AMS sealant specifications. Added Curing requirement for Accelerated Storage Stability Tests.

1. SCOPE

1.1 Form

This specification covers a polysulfide sealing compound with low adhesive strength. This elastomeric compound shall be supplied as a two-component system which cures at room temperature.

1.2 Application

This sealing compound is intended to be used for sealing aircraft access doors and accessories where gaskets are required, but usage is not limited to such applications. The sealing compound is resistant to jet fuels and high aromatic aviation gasolines and is usable from -65 to 250 °F (-54 to 121 °C).

1.3 Classification

The sealing compound covered by this specification is classified as corrosion inhibiting or non-corrosion inhibiting, method of application, and application time as follows:

Type 1: Non-corrosion inhibiting

Type 2: Corrosion inhibiting (non-chromated)

Class A - Suitable for brush application, available with the following application times:

Class A-1/2

Class A-2

Class B - Suitable for application by extrusion gun or spatula, available with the following application times:

Class B-1/2

Class B-2

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1.4 Safety - Hazardous Materials

Shall be in accordance with AS5502 (1.1).

2. APPLICABLE DOCUMENTS

Shall be in accordance with AS5502 (2).

The issue of the following documents in effect on the date of the purchase order forms a part of this specification to the extent specified herein. The supplier may work to a subsequent revision of a document unless a specific document issue is specified. When the referenced document has been cancelled and no superseding document has been specified, the last published issue of that document shall apply.

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.

AMS2629	Fluid, Jet Reference
AMS4045	Aluminum Alloy Sheet and Plate 5.6Zn - 2.5Mg - 1.6Cu - 0.23Cr 7075: (-T6 Sheet, -T651 Plate) Solution and Precipitation Heat Treated
AMS4049	Aluminum Alloy, Sheet and Plate, Alclad 5.6Zn - 2.5Mg - 1.6Cu - 0.23Cr (Alclad 7075; -T6 Sheet - T651 Plate) Solution and Precipitation Heat Treated
AMS4911	Titanium Alloy, Sheet, Strip, and Plate 6Al - 4V Annealed
AMS5516	Steel, Corrosion-Resistant, Sheet, Strip, and Plate 18Cr - 9.0Ni (SAE 30302) Solution Heat Treated
AS5127	Aerospace Standard Test Methods for Aerospace Sealants Methods for Preparing Aerospace Sealant Test Specimens
AS5127/1	Aerospace Standard Test Methods for Aerospace Sealants Two-Component Synthetic Rubber Compounds
AS5502	Standard Requirements for Aerospace Sealants and Adhesion Promoters

2.2 PRI Publications

Available from Performance Review Institute, 161 Thorn Hill Road, Warrendale, PA 15086-7527, Tel: 724-772-1616, www.pri-network.org.

PD2103	Aerospace Quality Assurance, Product Standards, Qualification Procedure, Sealants
PRI-QPL-AMS3284	Products Qualified Under AMS3284

2.3 U.S. Government Publications

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

MIL-PRF-23377	Primer Coatings: Epoxy, High Solids
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3. TECHNICAL REQUIREMENTS

3.1 Materials

The basic ingredient shall be synthetic rubber, made from liquid polysulfide and derivations thereof. The sealing compound shall cure by the addition of a separate curing agent to the base compound, and shall not depend on solvent evaporation for curing. The material shall consist of corrosion inhibiting and non-corrosion inhibiting types but neither shall contain lead or chromium compounds. The curing agent shall possess sufficient color contrast to the base compound to permit easy identification of an unmixed or incompletely mixed sealing compound. The cured sealant shall be red or pink in color. The base compound and the curing agent shall be of uniform blend and shall be free of skins, lumps, and gelled or coarse particles.

3.2 Date of Packaging

Shall be in accordance with AS5502 (3.1).

3.3 Toxicological Formulations

Shall be in accordance with AS5502 (3.2).

3.4 Quality

Shall be in accordance with AS5502 (3.3).

3.5 Shelf Life

Packaged material shall have a minimum shelf life of 9 months from date of packaging when stored unopened at 80 °F (27 °C) or lower.

3.5.1 Premixed and Frozen Material

Premixed and frozen material shall have a minimum storage life 30 days at -40 °F (-40 °C) or lower, or 10 days at -10 to -40 °F (-23 to -40 °C) from date of mix/freeze. Recommendations for longer storage lives at lower temperatures may be provided by the manufacturer. The date of mix/freeze shall be within the shelf life of the unmixed material.

3.6 Properties

The base compound and curing agent, when mixed in accordance with the manufacturer's instructions and cured in accordance with 4.5.3.4, shall conform to the requirements shown in Table 1, when determined in accordance with the specified test methods.