

**AEROSPACE
MATERIAL
SPECIFICATION**

SAE AMS3374/2

REV. A

Issued 1996-11
Cancelled 2011-02

Superseded by AMS3374

Sealing Compound
Two-Part, Addition Cured Silicone (Type 2)
Firewall Sealant

RATIONALE

Specification slash sheet is being cancelled. Technical information was incorporated in Revision C (July 2005) of base specification (AMS3374).

CANCELLATION NOTICE

This document has been declared "CANCELLED" as of February 2011 and has been superseded by AMS3374. By this action, this document will remain listed in the Numerical Section of the Aerospace Standards Index noting that it is superseded by AMS3374.

Cancelled specifications are available from SAE.

SAENORM.COM : Click to view the full PDF of AMS3374_2a

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 © 2011 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: +1 724-776-4970 (outside USA)
Fax: 724-776-0790
Email: CustomerService@sae.org
http://www.sae.org

SAE WEB ADDRESS:

SAE values your input. To provide feedback
on this Technical Report, please visit
<http://www.sae.org/technical/standards/AMS3374/2A>

1. SCOPE:**1.1 Form:**

This specification covers two-part, addition cured, high temperature resistant silicone sealing compounds.

1.2 Application:

This product is used primarily for sealing aircraft firewall structures against passage of air and vapors. The cured compound shall remain an effective sealant at all temperatures between -65 and +400 °F (-54 to +204 °C) and shall be able to withstand a flash temperature of 2000 °F (1093 °C).

2. APPLICABLE DOCUMENTS:

See AMS 3374.

3. TECHNICAL REQUIREMENTS:**3.1 Basic Specifications:**

The complete requirements for procuring the sealing compound described herein shall consist of this document and the latest issue of the basic specification AMS 3374.

3.2 Properties:

Shall conform to the following requirements, determined in accordance with test methods listed in AMS 3374 and Table 1.

3.2.1 Primer: The manufacturer's recommended primer shall be used in preparation of all applicable test specimens.

SAENORM.COM : Click to view the full PDF of ams3374_2a

TABLE 1 - Properties

Test Method Paragraph (Basic Specification)	Property	Requirement
4.5.3	Specific Gravity	1.5
4.5.4	Nonvolatile Content, min	98%
4.5.5	Flow	0.05 inch (13 mm)
4.5.6	Tack-Free Time, max	24 hours
4.5.7	Hardness, Durometer A, min	50
4.5.8	Thermal-Rupture Resistance, max	1/8 inch (3.2 mm)
4.5.9	Low Temperature Flexibility	No cracking or loss of adhesion
4.5.10	Peel Strength, min	10 pounds/inch (1750 N/m)
4.5.11	Corrosion Resistance	No loss of adhesion, softening, blistering, or leaching. No corrosion of panels. Discoloration is acceptable.
4.5.12	Flame Resistance	No Flame Penetration
4.5.13	Oil Resistance	No loss of adhesion, softening, or blistering.
4.5.14	Storage Stability	Shall meet requirements for flow, tack-free time and hardness.
4.5.15	Shear Strength, psi, min	200 min (85% Cohesion)
4.5.16	Application Time, min	4 hours
4.5.17	Repairability	Adhere

4. QUALITY ASSURANCE PROVISIONS:

See AMS 3374

5. PREPARATION FOR DELIVERY:

5.1 Packaging:

Compound shall be furnished in individual containers (for base compound and curing compound) or sectional-type containers. The ratio of the quantity in base container to the quantity contained in the curing agent container shall be the same as the recommended mixing ratio of the base compound and curing agent.

- 5.1.1 Individual Containers: The base compound shall be furnished in 1/2 pint (237 mL), 1 pint (473 mL), 1 quart (946 mL), or 1 gallon (3.79 L) metal cans, or as specified in the purchase order. Metal cans shall conform to PPP-C-96, Type V, Class 2. Tin plate cans with paper labels may be used, unless specifically prohibited by purchaser. The base compound contained in each size container shall be as shown in Table 2.

TABLE 2 - Containers

Size of Container	Amount of Base Compound
1/2 pint (237 mL)	6 fluid ounces $\pm 1/8$ (177 mL ± 4)
1 pint (473 mL)	12 fluid ounces $\pm 1/4$ (355 mL ± 7)
1 quart (946 mL)	24 fluid ounces $\pm 1/2$ (710 mL ± 15)
1 gallon (3.79 L)	96 fluid ounces ± 2 (2839 mL ± 60)

- 5.1.2 Sectional Type Containers: The base compound and curing agent shall be furnished in high density polyethylene sectional type 2-1/2 ounces (74 mL) or 6 ounce (177 mL) cartridges, conforming to MIL-P-38714, as specified in the purchase order. The total content of the base compound and curing agent contained in each sectional type container shall be shown in Table 3.

TABLE 3 - Sectional Type Containers

Size of Container	Total Content (Base Resin and Curing Agent)
2-1/2 ounce (74 mL)	2 fluid ounces $\pm 1/8$ (59 mL ± 4)
6 ounce (177 mL)	3-1/2 fluid ounces $\pm 1/8$ (59 mL ± 4)

- 5.1.3 Containers of compound shall be prepared for shipment in accordance with commercial practice and in compliance with applicable rules and regulations pertaining to the handling, packaging, and transportation of the compound to ensure carrier acceptance and safe delivery.
- 5.1.4 Primer: Six 4 fluid ounces (120 mL) glass bottles of primer shall be furnished with each 24 cartridge box of sealing compound. The bottles shall be packaged in a suitable sectionalized cardboard box. Instructions for use of the primer shall be included.
- 5.1.5 Boxes of sealing compound and of primer bottles shall be prepared for shipment in accordance with commercial practice and in compliance with applicable rules and regulations pertaining to the handling, packaging, and transportation of the compound to ensure carrier acceptance and safe delivery.
- 5.2 Identification: