

**AEROSPACE
MATERIAL
SPECIFICATION**

SAE AMS3315

REV. G

Issued 1949-11
Revised 1991-10
Reaffirmed 2005-05
Stabilized 2012-02

Superseding AMS3315F

Silicone (VMQ) Rubber Sheet, Glass Cloth Reinforced

RATIONALE

This document has been determined to contain basic and stable technology which is not dynamic in nature.

STABILIZED NOTICE

This document has been declared "Stabilized" by SAE AMS P, Polymeric Materials Committee, and will no longer be subjected to periodic reviews for currency. Users are responsible for verifying references and continued suitability of technical requirements. Newer technology may exist.

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 © 2012 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
SAE WEB ADDRESS: <http://www.sae.org>

**SAE values your input. To provide feedback
on this Technical Report, please visit
<http://www.sae.org/technical/standards/AMS3315G>**

1. SCOPE:

1.1 Form:

This specification covers silicone (VMQ) rubber sheet reinforced with glass cloth.

1.2 Application:

This product has been used typically for gaskets or seals requiring a thin, resilient, nonporous sheet material suitable for operating from -55 to +205 °C (-67 to +401 °F), but usage is not limited to such applications. This material is resistant to deterioration by weathering and petroleum-base engine oil and remains flexible over the temperature range noted. This material is not normally suitable for use in contact with gasoline or aromatic fuels and low-aniline-point petroleum-base fluids due to excessive swelling of the elastomer.

1.3 Safety - Hazardous Materials:

While the materials, methods, applications, and processes described or referenced in this specification may involve the use of hazardous materials, this specification does not address the hazards which may be involved in such use. It is the sole responsibility of the user to ensure familiarity with the safe and proper use of any hazardous materials and to take necessary precautionary measures to ensure the health and safety of all personnel involved.

2. APPLICABLE DOCUMENTS:

The following publications form a part of this specification to the extent specified herein. The latest issue of SAE publications shall apply. The applicable issue of other publications shall be the issue in effect on the date of the purchase order.

2.1 SAE Publications:

Available from SAE, 400 Commonwealth Drive, Warrendale, PA 15096-0001.

AMS 2810 Identification and Packaging, Elastomeric Products
AMS 3824 Cloth, Type "E" Glass, Finished for Resin Laminates

2.2 ASTM Publications:

Available from ASTM, 1916 Race Street, Philadelphia, PA 19103-1187.

ASTM D 471 Rubber Property - Effect of Liquids
ASTM D 518 Rubber Deterioration - Surface Cracking
ASTM D 573 Rubber - Deterioration in an Air Oven
ASTM D 751 Testing Coated Fabrics
ASTM D 1149 Rubber Deterioration - Surface Ozone Cracking in
a Chamber (Flat Specimens)
ASTM D 2137 Rubber Property - Brittleness Point of Flexible
Polymers and Coated Fabrics

3. TECHNICAL REQUIREMENTS:

3.1 Material:

Shall consist of a single ply of glass cloth coated on both sides with a silicone (VMQ) rubber compound substantially uniform in thickness on both faces of the cloth, with the rubber suitably cured to produce a product meeting the requirements of 3.2.

3.1.1 The glass cloth shall conform to AMS 3824 for the style specified for each nominal thickness shown in Table 1.

TABLE 1 - Glass Cloth Designation

Nominal Thickness Inch	Nominal Thickness Millimeters	Glass Cloth Designation
0.010	0.25	116
0.017	0.43	128
0.032	0.81	162 or 164
0.050	1.27	184