



AEROSPACE MATERIAL SPECIFICATION

AMS3337™**REV. G**

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Superseding AMS3337F

Silicone (PVMQ) Rubber
Extreme-Low-Temperature Resistant
65 - 75

RATIONALE

This technical report is being stabilized because it covers technology, products, or processes which are mature and not likely to change in the foreseeable future. The use of this specification is minimal and the customers that are using it have this incorporated with additional testing requirements. In the event there is an industry need, the AMS CE Committee will create a new specification with new technology and incorporate an AMS7xxx equivalent.

STABILIZED NOTICE

AMS3337G has been declared "STABILIZED" by SAE AMS Committee CE Elastomers 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.

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Documents

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1. SCOPE

1.1 Form

This specification covers a silicone (PVMQ) rubber in the form of sheet, strip, tubing, extrusions, and molded shapes.

1.2 Application

Primarily for parts required to operate or seal from -121 to +446 °F (-85 to +230 °C), compounded especially for operation at extreme low temperatures. Silicone rubber is resistant to deterioration by weathering and by high-aniline-point petroleum-based oils and remains flexible over the temperature range noted. These products are not normally suitable for use in contact with low-aniline-point petroleum-based fluids, including fuels, due to excessive swelling.

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 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.

AMS2279 Tolerances Rubber Products

AMS2810 Identification and Packaging Elastomeric Products

2.2 ASTM Publications

Available from ASTM International, 100 Barr Harbor Drive, P.O. Box C700, West Conshohocken, PA 19428-2959, Tel: 610-832-9585, www.astm.org.

ASTM D297 Standard Test Methods for Rubber Products - Chemical Analysis

ASTM D395 Standard Test Methods for Rubber Property Compression Set

ASTM D412 Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers - Tension

ASTM D471 Standard Test Methods for Rubber Property - Effect of Liquids

ASTM D518 Standard Test Methods for Rubber Deterioration - Surface Cracking

ASTM D573 Standard Test Methods for Rubber Property - Deterioration in an Air Oven

ASTM D624 Standard Test Methods for Tear Strength of Conventional Vulcanized Rubber and Thermoplastic Elastomers

ASTM D1149 Standard Test Methods for Rubber Deterioration - Cracking in an Ozone Controlled Environment

ASTM D2137 Standard Test Methods for Rubber Property - Brittleness Point of Flexible Polymers and Coated Fabrics

ASTM D2240 Standard Test Methods for Rubber Property Durometer Hardness

3. TECHNICAL REQUIREMENTS

3.1 Material

Shall be a compound, based on a silicone (PVMQ) rubber, suitably cured to produce a product meeting the requirements of 3.2.

3.2 Properties

The product shall conform to the following requirements; tests shall be performed on the product supplied and in accordance with specified ASTM methods, insofar as practicable: