

SAE Aerospace An SAE International Group	AEROSPACE MATERIAL SPECIFICATION	SAE AMS-R-3065	REV. A
		Issued2000-09 Cancelled2011-05	
		Superseding AMS-R-3065	
Rubber, Fabricated Products			

RATIONALE

AMS-R-3065 is being cancelled since the specification it was meant to replace, MIL-R-3065, has already been cancelled and replaced by ASTM D2000, Standard Classification System for Rubber Products in Automotive Applications.

CANCELLATION NOTICE

This specification has been "CANCELLED" by the Aerospace Materials Division, SAE as of May 2011. By this action, this document will remain listed in the Numerical Section of Aerospace Material Specifications. Users may refer to ASTM D2000 as a replacement specification; however, they are cautioned to evaluate ASTM D2000 for their particular application.

To obtain product dimension and tolerance requirements, users shall reference commercial specifications listed in the Rubber Manufacturer's Association (RMA) Rubber Handbook (A-3 commercial tolerances), and the RMA Rubber Sheet Packing Handbook. Other dimension and tolerance requirements shall be in accordance with the applicable part drawing or as indicated in the contract or purchase order. The RMA publications are available from the Rubber Manufacturer's Association, 1901 Pennsylvania Avenue, N.W. Washington, DC 20006.

AMS-R-3065A product references to MIL-STD-417 have been cross-referenced to ASTM D2000 as follows (MIL-STD-417 was previously canceled):

<u>MIL-STD-417</u>	<u>ASTM D2000</u>	<u>Type of polymer most often</u>
RN	AA	Natural, synthetic/reclaimed rubbers
RS	AA, BA	Natural, synthetic/reclaimed rubbers
SA	AK, BK	Polysulfides
SB	BG	NBR polymers, urethane
SC	BC	Chloroprene polymers
TA	FC, FS, FE, GE	Silicones (high strength)
TB	DH	Polyacrylic polymers

Cancelled specifications are available from SAE.

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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.

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NOTICE

This document has been taken directly from U.S. Military Specification MIL-R-3065E, Notice 1, Amendment 1, and contains only minor editorial and format changes required to bring it into conformance with the publishing requirements of SAE technical standards. The initial release of this document is intended to replace MIL-R-3065E, Notice 1, Amendment 1. Any part numbers established by the original specification remain unchanged.

The original Military Specification was adopted as an SAE standard under the provisions of the SAE Technical Standards Board (TSB) Rules and Regulations (TSB 001) pertaining to accelerated adoption of government specifications and standards. TSB rules provide for (a) the publication of portions of unrevised government specifications and standards without consensus voting at the SAE Committee level, and (b) the use of the existing government specification or standard format.

Under Department of Defense policies and procedures, any qualification requirements and associated qualified products lists are mandatory for DOD contracts. Any requirement relating to qualified products lists (QPL's) has not been adopted by SAE and is not part of this SAE technical document.

1. SCOPE:

1.1 Scope:

This specification establishes the requirements for fabricated products of vulcanized rubber, synthetic rubber or rubberlike compositions alone or in combination, together with procedures for the inspection of such products (see 6.1).

2. APPLICABLE DOCUMENTS:

The following publications, of the issues in effect on date of invitation for bids or request for proposal, form a part of this specification to the extent specified herein.

2.1 U.S. Government Publications:

Available from DODSSP, Subscription Services Desk, Building 4D, 700 Robbins Avenue, Philadelphia, PA 19111-5094.

NN-P-530	Plywood, Flat Panel
UU-P-268	Paper, Kraft, Wrapping
PPP-B-601	Boxes, Wood, Cleated Plywood
PPP-B-621	Boxes, Wood, Nailed and Lock-Corner
PPP-B-636	Boxes, Shipping, Fiberboard
PPP-B-640	Boxes, Fiberboard, Corrugated, Triple-Wall
PPP-T-45	Tape, Gummed, Paper, Reinforced and Plain, for Sealing and Securing

MIL-P-116	Preservation, Packaging, Methods of
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MIL-STD-105	Sampling Procedures and Tables for Inspection by Attributes
MIL-STD-129	Marking for Shipment and Storage
MIL-STD-177	Rubber Products, Terms for Visible Defects of
MIL-STD-190	Identification Marking of Rubber Products
MIL-STD-289	Visual Inspection Guide for Rubber Sheet Material
MIL-STD-298	Visual Inspection Guide for Rubber Extruded Goods
MIL-STD-407	Visual Inspection Guide for Rubber Molded Items
MIL-STD-417	Classification System and Tests for Solid Elastomeric Materials
MIL-STD-1523	Age Controls of Elastomeric Materials

MIL-HDBK-695	Rubber Products: Recommended Shelf Life
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2.2 ASTM Publications:

Available from ASTM, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959.

ASTM D 2000	Elastomeric Materials for Automotive Applications
ASTM D 3183	Rubber-Preparation of Pieces for Test from other than Standard Vulcanized Sheets
ASTM D 3951	Standard Practice for Commercial Packaging

2.3 Rubber Manufacturer's Association Publications:

Available from Rubber Manufacturer's Association, 1901 Pennsylvania Avenue, N.W., Washington, DC 20006.

Rubber Handbook, Specifications for Rubber Products
Rubber Sheet Packing Handbook
Vendors Identification Guide for Molded and Extruded Goods

3. REQUIREMENTS:

3.1 Material:

Rubber products furnished under this specification shall be made from rubber compositions in accordance with one of the grades, types, classes and suffixes designated in ASTM D 2000 (see 6.2 and 6.4).

3.2 Physical properties:

The physical properties of the rubber products covered by this specification shall be determined from specimens cut from the product or from specimens prepared from samples furnished by the contractor (see 4.3.3). The properties shall be determined in accordance with procedures and applicable documents established in ASTM D 2000 and shall conform to the values for the applicable grade, type and class listed in ASTM D 2000 (see 6.1 and 6.1.1).

3.3 Dimensions and tolerances:

Dimensions and tolerances shall be in accordance with the applicable part drawing or as indicated in the contract or purchase order (see 6.2). If no tolerances are specified, A-3 commercial tolerances of the Rubber Manufacturer's Association (RMA) Rubber Handbook as shown in table I, shall apply for molded solid rubber products and the commercial tolerances of the RMA Rubber Sheet Packing Handbook, as shown in table II, shall apply for sheet packing. Commercial tolerances as shown in tables III, IV and V shall apply for extruded shapes, extruded tubing and calendered sheet, respectively.

3.4 Identification marking:

When specified (see 6.2) identification marking shall be in accordance with MIL-STD-190 and the RMA Vendors Identification Guide for Molded and Extruded Goods. Unless otherwise specified, sheet material shall have the applicable NSN legibly marked on one side of each sheet in at least one place within 304.8 mm (12 in.) of a narrow edge and in numbers of not less than 12.7 mm (0.5 in) in height. The marking material used shall not be deleterious to the rubber material, nor shall the markings be obliterated by normal handling.

3.4.1 Cure date: For all rubber (or synthetic elastomers) furnished to ASTM D 2000, a cure date shall be marked and the marking shall be in accordance with MIL-STD-129 and applied using the calendar quarter and year (see 6.5).

3.5 Age control:

3.5.1 Shelf life: Unless otherwise specified, MIL-HDBK-695 shall be used as guidance to determine the expected shelf storage life of elastomeric products (see 6.2).

3.5.2 Delivery date: Delivery date of elastomeric products shall be as specified in the contract (see 6.2).

3.6 Color:

Unless otherwise specified (see 6.2) the color of the rubber products (except those fabricated from classes FC, FE, FK, and GE compounds of ASTM D 2000) shall be black. Products fabricated from compounds from class FC, FE, FK and GE of ASTM D 2000 may be black or any one of several colors in which these compounds are normally supplied, such as clear, amber, white, gray or red, etc.

3.7 Recoverable Materials:

Unless otherwise specified herein, all equipment, material, and articles incorporated in the products covered by this specification shall be new and shall be fabricated using materials produced from recovered materials to the maximum extent practicable without jeopardizing the intended use. The term "recoverable materials" means materials which have been collected or recovered from solid waste and reprocessed to become a source of raw materials, as opposed to virgin raw materials. None of the above shall be interpreted to mean that the use of used or rebuilt products is allowed under this specification unless otherwise specifically specified (see 6.2).