



AEROSPACE MATERIAL SPECIFICATION

AMS3217™

REV. A

Issued	1983-07
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Reaffirmed	2016-11

Superseding AMS3217

Standard Elastomer Stocks
Test Slabs

RATIONALE

AMS3217A has been reaffirmed to comply with the SAE five-year review policy.

1. SCOPE:

1.1 Form:

This specification and its supplementary detail specifications cover various elastomeric standard compounds in the form of molded test slabs 0.075 x 6 x 6 inches (1.90 x 152 x 152 mm).

1.2 Application:

These slabs are used typically to determine compatibility of the type of elastomer with various lubricating oils, hydraulic fluids, and fuels, but usage is not limited to such applications.

1.3 Classification:

The requirements specified herein and in the applicable detail specification define each standard elastomeric stock on the basis of the elastomeric polymer and compounding ingredients; the elastomeric polymer is shown in the title of each detail specification.

1.4 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.

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2.1 SAE Publications:

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

AMS 2810 Identification and Packaging, Elastomeric Products

2.2 ASTM Publications:

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

ASTM D 297 Rubber Products - Chemical Analysis

ASTM D 412 Rubber Properties in Tension

ASTM D 471 Rubber Property - Effect of Liquids

ASTM D 1765 Classification System for Carbon Blacks Used in Rubber Products

ASTM D 2240 Rubber Property - Durometer Hardness

ASTM D 3182 Rubber - Materials, Equipment, and Procedures for Mixing Standard Compounds and Preparing Standard Vulcanized Sheets

3. TECHNICAL REQUIREMENTS:

3.1 Detail Specifications:

The requirements for a standard elastomeric test slab shall consist of all requirements specified herein in addition to requirements specified in the applicable detail specification. In case of conflict between requirements of this basic specification and any applicable detail specification, requirements of the detail specification shall govern.

3.2 Material:

Shall be elastomeric stocks based on the polymers, compounded with the ingredients, and cured in accordance with the applicable detail specification. Compounding ingredients specified as "NIS SRM" materials are U.S. National Institute for Standards and Technology Standard Reference Materials.

3.3 Properties:

Test slabs shall conform to the properties specified in the applicable detail specification; tests shall be performed on the test slabs supplied and in accordance with test methods shown in Table 1.