



AEROSPACE MATERIAL SPECIFICATION

AMS3198**REV. L**

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Superseding AMS3198K

Sponge, Chloroprene (CR) Rubber
Medium Stiffness

RATIONALE

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

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Documents

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1. SCOPE:

1.1 Form:

This specification covers a chloroprene (CR) rubber sponge in the form of sheet, strip, molded shapes, or other forms, as ordered.

1.2 Application:

These products have been used typically for general applications requiring the use of open-cell, medium rubber sponge pads and seals operating from -40 to +80 °C (-40 to +176 °F), but usage is not limited to such applications.

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

2.2 ASTM Publications:

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

ASTM D 1056 Flexible Cellular Materials - Sponge or Expanded Rubber

3. TECHNICAL REQUIREMENTS:

3.1 Material:

Shall be a compound, based on a chloroprene (CR) elastomer with agents to form an open-cell sponge, suitably cured to produce a product meeting the technical requirements of this specification.

3.1.1 Color: Shall be black.

3.1.2 Finish: The top and bottom surfaces of sheet and strip and the exterior surfaces of molded parts shall have a natural skin finish. Fabric or wire mesh type of surface impressions are not objectionable.

3.1.3 Vulcanized Joints: Vulcanized joints are permissible in molded products where the finished product is larger than is usual industry practice to mold in one section. If a vulcanized joint is necessary, the joint shall have the same strength, size, and color as the parent material.

3.2 Properties:

Sponge shall conform to the following requirements; tests shall be performed on the sponge supplied and in accordance with ASTM D 1056 except as otherwise specified herein.

3.2.1 Compression Deflection: Shall be 6 to 13 psi (41.4 to 89.6 kPa) at 20 to 30 °C (68 to 86°F).

3.2.2 Specific Volume: Shall be as shown in Table 1 for each nominal thickness; a tolerance of ±10% will be allowed: