

AEROSPACE MATERIAL SPECIFICATION

Submitted for recognition as an American National Standard



AMS 3228H

Issued DEC 1942
Revised SEP 1996

Superseding AMS 3228G

ACRYLONITRILE BUTADIENE (NBR) RUBBER
Hot Oil and Coolant Resistant, Low Swell
65-75

This specification has been "CANCELLED" by the Aerospace Materials Division, SAE, as of September 1996. By this action, the document revision letter and title will be deleted from the active specification index of Aerospace Material Specifications. Cancelled specifications are available from SAE upon request.

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400 Commonwealth Drive, Warrendale, PA 15096-0001

AEROSPACE MATERIAL SPECIFICATION

SAE

AMS 3228G

Issued 1 DEC 1942
Revised 1 JAN 1992

Superseding AMS 3228F

Submitted for recognition as an American National Standard

ACRYLONITRILE BUTADIENE (NBR) RUBBER
Hot Oil and Coolant Resistant, Low Swell
65 - 75

This specification has been declared "NONCURRENT" by the Aerospace Materials Division, SAE, as of April 30, 1991. It is recommended, therefore, that this specification not be specified for new designs.

This cover sheet should be attached to the "F" revision of the subject specification.

"NONCURRENT" refers to those materials which have previously been widely used and which may be required on some existing designs in the future. The Aerospace Materials Division, however, does not recommend these as standard materials for future use in new designs. Each of these "NONCURRENT" specifications is available from SAE upon request.

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**AEROSPACE
MATERIAL
SPECIFICATION**

AMS 3228F
Superseding AMS 3228E

Issued 12-1-42
Revised 4-1-83

ACRYLONITRILE BUTADIENE (NBR) RUBBER
Hot Oil and Coolant Resistant, Low Swell
65 - 75

1. SCOPE:

1.1 Form: This specification covers a nitrile (NBR) rubber in the form of sheet, strip, tubing, extrusions, and molded shapes.

1.2 Application: Primarily for hose, packings, bushings, grommets, and seals in contact with hot, petroleum-base lubricating oils and glycol-type coolants from -40° to +100°C (-40° to +212°F).

2. APPLICABLE DOCUMENTS: The following publications form a part of this specification to the extent specified herein. The latest issue of Aerospace Material Specifications (AMS) shall apply. The applicable issue of other documents shall be as specified in AMS 2350.

2.1 SAE Publications: Available from SAE, 400 Commonwealth Drive, Warrendale, PA 15096.

2.1.1 Aerospace Material Specifications:

AMS 2350 - Standards and Test Methods

AMS 2810 - Identification and Packaging, Elastomeric Products

2.2 ASTM Publications: Available from American Society for Testing and Materials, 1916 Race Street, Philadelphia, PA 19103.

ASTM D297 - Rubber Products - Chemical Analysis

ASTM D395 - Rubber Property - Compression Set

ASTM D412 - Rubber Properties in Tension

ASTM D471 - Rubber Property - Effect of Liquids

ASTM D573 - Rubber Deterioration in an Air Oven

ASTM D2137 - Rubber Property - Brittleness Point of Flexible Polymers and Coated Fabrics

ASTM D2240 - Rubber Property - Durometer Hardness

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