



AEROSPACE MATERIAL SPECIFICATION

AMS3387™**REV. F**

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Superseding AMS3387E

Hose, Aircraft Fueling, Acrylonitrile Butadiene (NBR) Rubber Textile Reinforced,
Chloroprene Covered
Noncollapsing

RATIONALE

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

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1. SCOPE:

1.1 Form:

This specification covers a synthetic rubber in the form of a non-rigid, smooth bore, noncollapsing hose with textile reinforcement.

1.2 Application:

This hose has been used typically for fueling aircraft, but usage is not limited to such applications. Not intended for flexible connection between tractor and trailer or to be collapsed for drainage. Not recommended for operating pressures higher than 160 psi (1103 kPa).

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 applicable issue of referenced publications shall be the issue in effect on the date of the purchase order.

2.1 ASTM Publications:

Available from ASTM, 1916 Race Street, Philadelphia, PA 19103-1187.

ASTM D 380 Testing Rubber Hose
ASTM D 471 Rubber Property - Effect of Liquids
ASTM D 518 Rubber Deterioration - Surface Cracking
ASTM D 1149 Rubber Deterioration - Surface Ozone Cracking in a Chamber (Flat Specimens)

2.2 U.S. Government Publications:

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

MIL-H-775 Hose, Hose Assemblies; Rubber, Plastic, Fabric, or Metal (Including Tubing); and Fittings, Nozzles, and Strainers, Packaging of

3. TECHNICAL REQUIREMENTS:

3.1 Material and Fabrication:

3.1.1 Hose: Shall consist of an acrylonitrile-butadiene (NBR) rubber inner tube; braided, spiralled, loomed, or plied textile reinforcement; and a chloroprene (CR) rubber cover.

3.1.1.1 Tube: Shall be fabricated from a compound based on a copolymer of butadiene and acrylonitrile. Thickness of the tube shall be not less than 0.078 inch (1.98 mm). The bore shall be smooth, free from pits, and of uniform thickness.

3.1.1.2 Reinforcement: Shall be well, evenly, and firmly braided, spiralled, loomed, or plied and shall be free from dirt, lumps, and irregularities of twist.

3.1.1.3 Cover: Shall be chloroprene (CR) rubber or other types or blends having equivalent resistance to weathering and petroleum products, and shall be free from pitting. Thickness of cover shall be not less than 0.078 inch (1.98 mm).

3.2 Properties:

Hose shall conform to requirements shown in Table 1, 3.2.4, 3.2.5, 3.2.6, and 3.2.7; tests shall be performed on the hose supplied and, except as otherwise specified herein, in accordance with ASTM D 380, insofar as practicable.