

AERONAUTICAL MATERIAL SPECIFICATIONS

AMS 3388

SOCIETY OF AUTOMOTIVE ENGINEERS, Inc. 485 Lexington Ave., New York 17, N.Y.

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Revised

HOSE, SYNTHETIC RUBBER, AIRCRAFT FUELING Single Wire Braid Reinforced - Noncollapsing

1. **ACKNOWLEDGMENT:** A vendor shall mention this specification number in all quotations and when acknowledging purchase orders.
2. **TYPE:** Non-rigid, smooth bore, noncollapsing type hose.
3. **APPLICATION:** Primarily for fueling aircraft. Not intended for flexible connection between tractor and trailer, or to be collapsed for drainage. Not recommended for operating pressures higher than 125 psi.
4. **MATERIAL AND FABRICATION:**
 - 4.1 **Hose:** Shall consist of a synthetic rubber inner tube, single corrosion resistant steel wire braided reinforcement, and a synthetic rubber cover.
 - 4.1.1 **Tube:** Shall be a seamless, continuous extrusion of fuel resistant synthetic rubber. Thickness of tube shall be not less than 0.078 inch. The bore shall be smooth and free from pitting and from objectionable cuttings, borings, and cements.
 - 4.1.2 **Reinforcement:** Shall be well, evenly, and firmly braided and shall be free from dirt, lumps, and irregularities of braid.
 - 4.1.3 **Cover:** Shall be of chloroprene type synthetic rubber and shall be free from pitting. Thickness shall be not less than 0.078 inch.
5. **TECHNICAL REQUIREMENTS:**
 - 5.1 **General:**
 - 5.1.1 **Weathering:** When specified, the product shall have weather resistance acceptable to the purchaser as determined by a procedure agreed upon by purchaser and vendor.
 - 5.1.2 **Corrosion:** The product shall not have a corrosive effect on other materials when exposed to conditions normally encountered in service. Discoloration of metal shall not be considered objectionable.
 - 5.2 **Properties:** The product shall conform to the following requirements; tests shall be performed on the product supplied and in accordance with ASTM D380-57T, insofar as practicable.
 - 5.2.1 Volume Change, %

See Note 1

 - 5.2.1.1 Tube 0 to +50
 - 5.2.1.2 Cover 0 to +100

Note 1. Use ASTM Reference Fuel B.