

MATERIAL SPECIFICATIONS

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

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Revised 7-15-61**HOSE, SYNTHETIC RUBBER, AIRCRAFT FUELING
Double Wire Braid Reinforced, Noncollapsing**

1. **ACKNOWLEDGMENT:** A vendor shall mention this specification number and its revision letter 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, double corrosion resistant steel wire braided reinforcement, and a synthetic rubber cover. In addition to the steel wire reinforcement, one or more textile braids or plies may be incorporated at manufacturer's option.
 - 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 synthetic rubber of chloroprene type, or other types or blends having equivalent resistance to weathering and petroleum products, and shall be free from pitting.
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 D380-59, insofar as practicable.