



AEROSPACE MATERIAL SPECIFICATION

AMS-P-5510™**REV. B**

Issued 1998-03
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Superseding AMS-P-5510A

O-Ring, Preformed, Straight Thread Tube Fitting Boss,
Type I Hydraulic (-65 to 160 °F)

RATIONALE

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

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AMS-P-5510B has been declared "STABILIZED" by SAE AMS Committee CE Elastomers and will no longer be subjected to periodic reviews for currency. Users are responsible for verifying references and continued suitability of technical requirements. Newer technology may exist.

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Documents

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NOTICE

The initial SAE publication of this document was taken directly from U.S. Military Standard MIL-P-5510C. This SAE Standard retains the same part numbers established by the original military document. Any requirements associated with Qualified Products Lists (QPL) may continue to be mandatory for DoD contracts.

1. SCOPE

1.1 Form

This specification covers requirements for the material, design, testing and packaging of straight thread tube fitting boss O-rings. O-rings covered by this specification are acrylonitrile-butadiene rubber.

1.2 Application

O-rings covered by this specification are intended for use in aircraft Type I hydraulic systems (-65 to 160 °F) to seal standard fitting of the AS4395 and AS5202 bosses as indicated in MS21344.

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 issue of the following documents in effect on the date of the purchase order forms a part of this specification to the extent specified herein. The supplier may work to a subsequent revision of a document unless a specific document issue is specified. When the referenced document has been cancelled and no superseding document has been specified, the last published issue of that document shall apply.

2.1 SAE Publications

Available from SAE International, 400 Commonwealth Drive, Warrendale, PA 15096-0001, Tel: 877-606-7323 (inside USA and Canada) or 724-776-4970 (outside USA), www.sae.org.

AMS2817	Packaging and Identification, Preformed O-rings
AMS6350	Steel Plate, Sheet, and Strip, Alloy 4130 Aircraft Quality
AMS-QQ-A-250/4	Aluminum Alloy 2024, Plate and Sheet
AMS-QQ-A-250/11	Aluminum Alloy 6061, Plate and Sheet
AMS-QQ-A-250/12	Aluminum Alloy 7075, Plate and Sheet
AMS-QQ-S-763	Steel Bar, Shapes, and Forgings - Corrosion Resisting (440C Stainless Steel)
AS28778	O-ring, Preformed, Straight Thread Tube Fitting Boss
AS33566	Fittings, Installation of Flareless Tube, Straight-Threaded Connectors
AS4395	Fitting End, Standard Dimensions for Flared Tube Connection and Gasket Seal
AS5202	Bosses Fluid Connection, Internal Straight Thread

2.2 ASQ Publications

Available from the American Society of Quality (ASQ), ASQ Distribution Center, 5131 S. Third Street, Milwaukee, Wisconsin 53207-6028, Tel: 800-248-1946, www.asq.org.

ANSI/ASQ Z1.4	Sampling Procedures and Tables for Inspection by Attributes
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2.3 ISO Publications

Available from the International Organization for Standardization (ISO), CME Postale 56, CH-1211 Genève, Switzerland or www.iso.org.

ISO 3601-3	Fluid Power Systems-O-rings-Part 3: Quality Acceptance Criteria
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2.4 U.S. Government Publications

Available from the Document Automation and Production Service (DAPS), Building 4/D, 700 Robbins Avenue, Philadelphia, PA 19111-5094, Tel: 215-697-6257, <http://assist.daps.dla.mil/quicksearch/>.

MIL-PRF-5606	Hydraulic Fluid, Petroleum Base, Aircraft and Ordnance
MIL-PRF-6083	Hydraulic Fluid Petroleum Base, Preservative
MS21344	Fittings-Installation of Flared Tube, Straight Thread Connectors Design Standard for

2.5 ASME Publications

Available from ASME, Three Park Avenue, New York, NY 10016-5990, Tel: 800-843-2763, www.asme.org.

ASME B46.1	Surface Texture (Surface Roughness, Waviness, and Lay)
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