



AEROSPACE MATERIAL SPECIFICATION

AMS3384™**REV. A**Issued 2013-08
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Superseding AMS3384

Rubber, Fluorocarbon Elastomer (FKM)
70 to 80 Hardness, Low Temperature Sealing Tg -22 °F (-30 °C)
For Elastomeric Shapes or Parts in Gas Turbine Engine Oil, Fuel and Hydraulic Systems

RATIONALE

This technical report is being stabilized because it covers technology, products, or processes which are mature and not likely to change in the foreseeable future. The use of this specification is minimal and the customers that are using it have this incorporated with additional testing requirements. In the event there is an industry need, the AMS CE Committee will create a new specification with new technology and incorporate an AMS7xxx equivalent.

STABILIZED NOTICE

AMS3384A 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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1. SCOPE

1.1 Form

This specification covers a high temperature, compression set and fluid resistant fluorocarbon (FKM) rubber in the form of sheet, strip, tubing, extrusions, and molded shapes for aeronautical and aerospace applications.

1.2 Application

These products have been used in contact with air and a wide variety of fuels, lubricants, specific hydraulic fluids, and a variety of gas turbine engine lubricants, including higher thermo-oxidative stability (HTS) lubricants, including those conforming to MIL-PRF-23699 Class HTS, MIL-PRF-7808 Grade 4 and AS5780 Class HPC; however usage is not limited to such applications. This Material Type has a typical service temperature range of -40 to +400 °F (-40 to +204 °C). These products are not suitable for use in phosphate ester based hydraulic fluids. Each application should be considered individually.

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.

AMS2279	Tolerances, Rubber Products
AMS2810	Identification and Packaging, Elastomeric Products
AMS3021	Fluid, Reference for Testing Di-Ester (Polyol) Resistant Material
AMS3085	Fluid, Reference for Testing AS5780 HPC Class (Polyol) Resistant Material
AMS-R-83485	Rubber, Fluorocarbon Elastomer, Improved Performance at Low Temperatures
AS5780	Specification for Aero and Aero-Derived Gas Turbine Engine Lubricants
AS83485	Aerospace Standard, Packing, Preformed, AMS 7XXX, O-ring

2.2 ASTM Publications

Available from ASTM International, 100 Barr Harbor Drive, P.O.Box C700, West Conshohocken, PA 19428-2959, Tel: 610-832-9585, www.astm.org.

ASTM D 297	Rubber Products - Chemical Analysis
ASTM D 395	Rubber Property - Compression Set
ASTM D 412	Vulcanized Rubber and Thermoplastic Elastomers - Tension
ASTM D 471	Rubber Property - Effect of Liquids
ASTM D 573	Rubber - Deterioration in an Air Oven
ASTM D 1329	Rubber Property - Retraction at Low Temperature (TR Test)
ASTM D 1418	Standard Practice for Rubber and Rubber Latices - Nomenclature
ASTM D 2240	Rubber Property - Durometer Hardness
ASTM D 7426	Assignment of the DSC Procedure for Determining Tg of a Polymer or an Elastomeric Compound

2.3 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) 697-6396, <http://quicksearch.dla.mil/>.

MIL-PRF-7808	Performance Specification Lubricating Oil, Aircraft Turbine Engine, Aircraft Turbine Engine, Synthetic Base
MIL-PRF-23699	Performance Specification Lubricating Oil, Aircraft Turbine Engine, Aircraft Turbine Engine, Synthetic Base, NATO Code Number O-156