



AEROSPACE MATERIAL SPECIFICATION	AMS7287™	REV. A
	Issued 2012-08 Revised 2022-09	
	Superseding AMS7287	

(R) Fluorocarbon Elastomer (FKM)
High Temperature/HTS Oil Resistant/Fuel Resistant
Low Compression Set/70 to 80 Hardness,
Low Temperature Tg -22 °F (-30 °C),
for Seals in Oil/Fuel/Specific Hydraulic Systems

RATIONALE

Update to latest AMS7xxx template.

1. SCOPE

1.1 Form

This specification covers a high temperature, compression set, and fluid resistant fluorocarbon (FKM) elastomer in the form of molded O-rings, molded compression seals, molded O-ring cord, and molded-in-place gaskets for aeronautical and aerospace applications. For sheet, strip, tubing, extrusions, and molded shapes use the AMS3384 specification.

1.2 Application

These products are expected to be suitable for use in contact with air and a wide variety of fuels, lubricants, specific hydraulic fluids, and a variety of gas turbine engine lubricants, including high temperature thermo-oxidative stability (HTS) lubricants, including those conforming to MIL-PRF-23699 Class HTS, MIL-PRF-7808 Grade 4, MIL-PRF-83282, 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. It is the responsibility of the user to determine that this specification is appropriate for the environments (temperature range, fluids exposure, etc.) in which it is sought to be used.

1.3 Order of Precedence

Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained. This specification is in addition to and in no way limiting, superseding, or abrogating any contractual obligation as required by the applicable procurement document. In the event of conflict in requirements, the order of precedence shall be:

1. Procurement document or contractual agreement and all statutory and regulatory requirements (excluding this document).
2. Applicable purchaser's drawing or SAE ASXXXX parts standard.
3. Specification referenced on the drawing.

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