



AEROSPACE INFORMATION REPORT

AIR1364™

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Superseding AIR1364B

Age Control of Age Sensitive Elastomeric Materials

RATIONALE

AIR1364C stabilizes this document because this document contains mature technology that is not expected to change and thus no further revisions are anticipated.

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This document has been declared "STABILIZED" by SAE AMS CE Elastomers Committee 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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FOREWORD

The scope of this document is limited to nitrile elastomers and their blends.

MIL-STD-1523A, "Age Controls of Age-Sensitive Elastomeric Materiel (For Aerospace Applications)", requiring maximum ages of age sensitive elastomeric items for use in military aircraft and missiles and for space vehicles at the time of acceptance, was cancelled on 30 January 1995. The cancellation notice for MIL-STD-1523A replaces it by AS1933 for hose applications and ARP5316 for seal applications. In addition, MIL-HDBK-695 is applicable for all elastomeric parts not covered by these two specifications.

U.S. military specifications for nitrile rubber O-rings such as MIL-P-5315, MIL-P-5510, MIL-P-25732, and MIL-P-83461 [and their replacements AMS-P-5315, AMS-P-5510, and AMS-P-83461], which were formerly controlled by MIL-STD-1523A, are now age controlled by the three specifications cited in the paragraph above.

The following text is unchanged from the 1975 revision (except where indicated) and is republished for historical purposes.

1. SCOPE

This SAE Aerospace Information Report (AIR) summarizes data and background relative to age control of specific classes of those nitrile type synthetic elastomers used in sealing devices which are resistant to petroleum base hydraulic fluids, lubricating oils, and aircraft fuels. This includes, but is not limited to, those nitrile (NBR or BUNA-N) elastomers previously covered by Section I of MIL-STD-1523.

1.1 Purpose

To provide users with appropriate references and information correlating past need and use of age controls with current needs and to provide summary guidelines for consideration when future use of age controls is required or contemplated.