



AEROSPACE INFORMATION REPORT

AIR1169**REV. C**

Issued	1983-05
Revised	1997-07
Reaffirmed	2007-09
Stabilized	2014-10

Superseding AIR1169B

Bibliography of References Pertaining to The Effects of Oxygen on Ignition and Combustion of Materials

RATIONALE

The A-10 Committee concluded that the content of this document will not be updated in the future. The retirement of the document sponsor combined with the greater availability to specific references with current technology makes keeping this document current a relatively redundant effort that yields no meaningfully enhanced benefits in terms of information availability. Therefore, the Committee decided to stabilize this document in its current state.

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1. SCOPE:

The scope of this document is to provide a list of documents of types pertaining to the effects of oxygen on ignition and combustion of materials. Consolidating these references in one place makes it easier to find documents of this type as these references are difficult to locate.

2. REFERENCES:

Due to the fact that the contents of this document are references, there are no references to be listed in this section.

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ASTM G 72 "Standard Test Method for Autogenous Ignition-Temperature of Liquids and Solids in a High-Pressure Oxygen-Enriched Environment," (high pressure oxygen, fire ignition, oxygen enriched design guide, standard).

ASTM G 74 "Standard Test Method for Ignition Sensitivity of Materials to Gaseous Fluid," (ignition, oxygen safety, fire design guide, standard, dynamic pressure impact test).

ASTM G 86 "Standard Test Method for Determining Ignition Sensitivity of Materials to Mechanical Impact in Pressurized Oxygen Environments," (ignition sensitivity, oxygen mechanical impact tests, design guide, standard).

ASTM G 88 "Standard Guide for Designing Systems for Oxygen Service," (design guide, oxygen service, standard, oxygen safety, oxygen compatibility, fire).

ASTM G 93 "Standard Practice for Cleaning Methods for Materials and Equipment Used in Oxygen-Enriched Environments," (oxygen cleaning, solvents, precision cleaning).

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ASTM G-4 Committee Computer "Utilities Disk," Requires 2.5 Mb of hard drive space and a minimum of Windows 3.1. Version 1 Issued 1995. These nonmandatory utilities were prepared by ASTM Committee G-4 on Compatibility and Sensitivity of Materials in Oxygen-Enriched Atmospheres. They are offered as a use-at-your-own-risk public service, without warranty, to oxygen compatibility practitioners. These utilities do not make recommendations nor technical decisions. There is no intent to suggest these utilities are preferable to other resources but are merely among the many tools one might select or alter to use in coping with the use of ASTM Committee G-4 standards and oxygen. To order, write to ASTM Committee G-4 Liaison (Steve Mawn), ASTM, 1916 Race St., Philadelphia PA 19103-1187.

ASTM G-4 Committee Computer "Utilities Disk," Contains (1) Surrogate files to assist documenting material evaluations per ASTM G-4 Standards G 63, G 94, and G 88; (2) Surrogate-paper files for authors who submit camera-ready papers to ASTM G-4 symposia; (3) A bibliographic compilation of about 238 references; (4) A copy of the ASTM Committee G4 Member Information Packet; (5) Database file of oxygen compatibility enthusiasts categorized as G4 members, attendees at G4 symposia, students at G-4 Courses, consultants, commercial testing sources; and (6) A Windows 3.1 program for calculating Allowed velocities in steel piping based on CGA Pamphlet G-4.4, Adiabatic compression temperatures per ASTM G 88, and Minimum recommended test pressures for ASTM G 124.

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