



AEROSPACE INFORMATION REPORT

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Superseding AIR6190

Provisions of Medical Oxygen for Aircraft Occupants

RATIONALE

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

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1. SCOPE

This document provides information on provisions for passengers with disabilities on board commercial aircraft. In this context the term "provision of medical oxygen" shall be understood as application of oxygen on board an aircraft not linked to (post) decompression in the sense of Airworthiness Requirements FAR/CS 25 and Operational Regulations of FAR 121/135.

Information about available equipment and physiological treatment in clinical practice will be provided in this document.

It covers the use of oxygen concentrators according to guidance of FAR Advisory Circular AC120-95.

2. REFERENCES

2.1 Applicable Documents

The following publications form a part of this document to the extent specified herein. The latest issue of SAE publications shall apply. The applicable issue of other publications shall be the issue in effect on the date of the purchase order. In the event of conflict between the text of this document and references cited herein, the text of this document takes precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

2.1.1 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.

AIR171 Glossary of Technical and Physiological Terms Related to Aerospace Oxygen Systems

AS8010 Aviator's Breathing Oxygen Purity Standard

AS8025 Passenger Oxygen Mask

AS8059 Carry-On Portable Oxygen Concentrators

2.1.2 Other Publications

Guideline for Emergency Oxygen Use in Adult Patients – Thorax / AN INTERNATIONAL JOURNAL OF RESPIRATORY MEDICINE: Thorax 2008;63 (Suppl. VI), vi1-vi68. Doi:10.1136/thx.2008.102947

MIL-PRF -27210 Oxygen, Aviator's Breathing, Liquid and Gas

2.2 Definitions

CHRONIC OBSTRUCTIVE PULMONARY DISEASE (COPD): Is the co-occurrence of chronic bronchitis and emphysema, a pair of commonly co-existing diseases of the lungs in which the airways become narrowed.

DISPENSING DEVICE: Any device approved for use, and installation or approved as carry-on aboard aircraft that will deliver breathing oxygen to an individual at the flow required by a physician or airworthiness requirements.

EQUIVALENT SAFETY FINDING: Equivalent levels of safety (ELOS) findings are made when literal compliance with a certification regulation cannot be shown and compensating factors exist that can be shown to provide an equivalent level of safety.

FIRST AID OXYGEN: An oxygen supply used for physiological treatment following cabin decompression and the entire time that cabin pressure altitudes exceed 10 000 ft, but also may be used in case of any medical emergency.