
INTERNATIONAL STANDARD



2434

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

Compressed non-breathing air for use in aircraft

First edition – 1973-12-01

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UDC 629.13 : 621.602

Ref. No. ISO 2434-1973 (E)

Descriptors : aircraft, compressed air, materials specifications, pressure.

Price based on 1 page

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FOREWORD

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO Member Bodies). The work of developing International Standards is carried out through ISO Technical Committees. Every Member Body interested in a subject for which a Technical Committee has been set up has the right to be represented on that Committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work.

Draft International Standards adopted by the Technical Committees are circulated to the Member Bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 2434 was drawn up by Technical Committee ISO/TC 20, *Aircraft and space vehicles*, and circulated to the Member Bodies in June 1971.

It has been approved by the Member Bodies of the following countries :

Austria	Italy	Thailand
Belgium	Japan	Turkey
Brazil	Netherlands	United Kingdom
Canada	New Zealand	U.S.A.
Czechoslovakia	Romania	U.S.S.R.
Egypt, Arab Rep. of	South Africa, Rep. of	
India	Spain	

The Member Body of the following country expressed disapproval of the document on technical grounds :

France

Compressed non-breathing air for use in aircraft

1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies the pressure and characteristics of non-breathing air, compressed in oil-lubricated equipment, for use in aircraft.

This International Standard is not intended to cover air for breathing purposes or air for use in oxygen systems.

2 PRESSURE

The compressed air supply pressure shall ensure charging of aircraft systems up to 343 bar (4 975 lbf/in²) at 20 °C.

NOTE — The working pressures of aircraft compressed air systems currently in use are 241 bar (3 500 lbf/in²) and 343 bar (4 975 lbf/in²).

3 CHARACTERISTICS

3.1 The air shall contain not more than a total of 0,005 mg of oil vapour and particulate matter per cubic decimetre (or litre) of air at 15 °C and 1 013 mbar (14.69 lbf/in²).

3.2 The water content shall not exceed 0,02 mg per cubic decimetre (or litre) of air at 15 °C and 1 013 mbar (14.69 lbf/in²).

3.3 Any particulate matter in the air shall be capable of passing through a filter with a nominal rating of 10 µm.

NOTE — 1 bar = 100 kN/m² = 100 kPa