
Compressed air —

**Part 1:
Contaminants and purity classes**

Air comprimé —

Partie 1: Polluants et classes de pureté



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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established 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. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 8573-1 was prepared by Technical Committee ISO/TC 118, *Compressors and pneumatic tools, machines and equipment*, Subcommittee SC 4, *Compressed air purity specification and compressed air treatment equipment*.

This third edition cancels and replaces the second edition (ISO 8573-1:2001), which has been technically revised. It also incorporates the Technical corrigendum (ISO 8573-1:2001/Cor.1:2002).

ISO 8573 consists of the following parts, under the general title *Compressed air*:

- *Part 1: Contaminants and purity classes*
- *Part 2: Test methods for oil aerosol content*
- *Part 3: Test methods for measurement of humidity*
- *Part 4: Test methods for solid particle content*
- *Part 5: Test methods for oil vapour and organic solvent content*
- *Part 6: Test methods for gaseous contaminant content*
- *Part 7: Test method for viable microbiological contaminant content*
- *Part 8: Test methods for solid particle content by mass concentration*
- *Part 9: Test methods for liquid water content*

Introduction

This part of ISO 8573 is the key element of the ISO 8573 series of documents, which provides a classification system for the main contaminants of a compressed air system and identifies how other contaminants can be identified in addition to the classification system.

This part of ISO 8573 is supplemented by other parts that provide measurement methods for a wide range of contaminants.

As an important addition to this part of ISO 8573, Annex A has been added to provide the user with guidance on a number of aspects of the classification system and topics related to the associated measurement methods.

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Compressed air —

Part 1: Contaminants and purity classes

1 Scope

This part of ISO 8573 specifies purity classes of compressed air with respect to particles, water and oil, independent of the location in the compressed air system at which the air is specified or measured.

This part of ISO 8573 provides general information about contaminants in compressed air systems as well as links to the other parts of ISO 8573, either for the measurement of compressed air purity or the specification of compressed air purity requirements.

In addition to the above-mentioned contaminants of particles, water and oil, this part of ISO 8573 also identifies gaseous and microbiological contaminants.

Guidance is given in Annex A as to the application of this part of ISO 8573.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 7183, *Compressed-air dryers — Specification and testing*

ISO 8573-2, *Compressed air — Part 2: Test methods for oil aerosol content*

ISO 8573-3, *Compressed air — Part 3: Test methods for measurement of humidity*

ISO 8573-4, *Compressed air — Part 4: Test methods for solid particle content*

ISO 8573-5, *Compressed air — Part 5: Test methods for oil vapour and organic solvent content*

ISO 8573-6, *Compressed air — Part 6: Test methods for gaseous contaminant content*

ISO 8573-7, *Compressed air — Part 7: Test method for viable microbiological contaminant content*

ISO 8573-8, *Compressed air — Part 8: Test methods for solid particle content by mass concentration*

ISO 8573-9, *Compressed air — Part 9: Test methods for liquid water content*