



**NSAI**  
Standards

Irish Standard  
I.S. EN ISO 6141:2015

## Gas analysis - Contents of certificates for calibration gas mixtures (ISO 6141:2015)

## I.S. EN ISO 6141:2015

*Incorporating amendments/corrigenda/National Annexes issued since publication:*

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## Gas analysis - Contents of certificates for calibration gas mixtures (ISO 6141:2015)

Analyse des gaz - Contenu des certificats des mélanges de gaz pour étalonnage (ISO 6141:2015)

Gasanalyse - Inhalte von Zertifikaten für Kalibriergasgemische (ISO 6141:2015)

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**EN ISO 6141:2015 (E)**

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## **Foreword**

This document (EN ISO 6141:2015) has been prepared by Technical Committee ISO/TC 158 "Analysis of gases".

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by September 2015, and conflicting national standards shall be withdrawn at the latest by September 2015.

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

This document supersedes EN ISO 6141:2006.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

### **Endorsement notice**

The text of ISO 6141:2015 has been approved by CEN as EN ISO 6141:2015 without any modification.

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# INTERNATIONAL STANDARD

# ISO 6141

Fourth edition  
2015-03-01

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## **Gas analysis — Contents of certificates for calibration gas mixtures**

*Analyse des gaz — Contenu des certificats des mélanges de gaz  
pour étalonnage*



Reference number  
ISO 6141:2015(E)

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**ISO 6141:2015(E)**



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## ISO 6141:2015(E)

### 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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see [www.iso.org/directives](http://www.iso.org/directives)).

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. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see [www.iso.org/patents](http://www.iso.org/patents)).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: [Foreword - Supplementary information](#)

The committee responsible for this document is ISO/TC 158, *Analysis of gases*.

This fourth edition cancels and replaces the third edition (ISO 6141:2000), which has been technically revised to align it with ISO Guide 31<sup>[3]</sup>.

# Gas analysis — Contents of certificates for calibration gas mixtures

## 1 Scope

This International Standard specifies minimum requirements for the contents of certificates for homogeneous gas mixtures in gas cylinders to be used as calibration gas mixtures. Pure gases, when used as calibration gas mixtures, are also covered by this International Standard. Gases and gas mixtures produced for other purposes are not considered.

The requirements in this International Standard deal with the metrological aspects of calibration gas mixtures. Other aspects, such as safety and legislative aspects, are not covered.

Furthermore, it specifies additional information (optional data) recommended for describing a homogeneous gas mixture, supplied under pressure in a cylinder or other container. It does not cover the field of safety-relevant data and related labelling.

## 2 Normative references

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

ISO/IEC Guide 98-3, *Uncertainty of measurement — Part 3: Guide to the expression of uncertainty in measurement (GUM:1995)*

ISO 7504, *Gas analysis — Vocabulary*

## 3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO/IEC Guide 98-3, ISO 7504, and the following apply.

### 3.1

#### **producer**

organization that has produced the gas or gas mixture

Note 1 to entry: The producer is the organization which bears the responsibility for the contents of the certificate.

### 3.2

#### **customer**

organization that has ordered the gas or gas mixture

### 3.3

#### **container**

vessel in which the gas or gas mixture is supplied

## 4 Contents

### 4.1 Specification of certificate data

The information specified by this International Standard shall be provided by the supplier of the gas or gas mixture, in a certificate, i.e. a document uniquely related to the container and its contents.

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