

STN	Čisté priestory a príslušné riadené prostredie Časť 15: Hodnotenie vhodnosti zariadení a materiálov pre čisté priestory podľa chemickej koncentrácie vo vzduchu a na povrchu (ISO 14644-15: 2017)	STN EN ISO 14644-15 12 5301
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Cleanrooms and associated controlled environments - Part 15: Assessment of suitability for use of equipment and materials by airborne chemical concentration (ISO 14644-15:2017)

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 05/18

Obsahuje: EN ISO 14644-15:2017, ISO 14644-15:2017

126597

EUROPEAN STANDARD

EN ISO 14644-15

NORME EUROPÉENNE

EUROPÄISCHE NORM

December 2017

ICS 13.040.35

English Version

Cleanrooms and associated controlled environments - Part 15: Assessment of suitability for use of equipment and materials by airborne chemical concentration (ISO 14644- 15:2017)

Salles propres et environnements maîtrisés apparentés
- Partie 15: Évaluation de l'aptitude à l'emploi des
équipements et des matériaux par la détermination de
la concentration chimique aéroportée (ISO 14644-
15:2017)

Reinräume und zugehörige Reinraumbereiche - Teil
15: Bewertung der Reinraumtauglichkeit von Geräten
und Materialien anhand der chemischen Luft- und
Oberflächenkonzentration (ISO 14644-15:2017)

This European Standard was approved by CEN on 27 October 2017.

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EN ISO 14644-15:2017 (E)

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European foreword

This document (EN ISO 14644-15:2017) has been prepared by Technical Committee ISO/TC 209 “Cleanrooms and associated controlled environments” in collaboration with Technical Committee CEN/TC 243 “Cleanroom technology” the secretariat of which is held by BSI.

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of an identical text or by endorsement, at the latest by June 2018 and conflicting national standards shall be withdrawn at the latest by June 2018.

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Endorsement notice

The text of ISO 14644-15:2017 has been approved by CEN as EN ISO 14644-15:2017 without any modification.

**INTERNATIONAL
STANDARD**

**ISO
14644-15**

First edition
2017-10

Cleanrooms and associated controlled environments —

**Part 15:
Assessment of suitability for use of
equipment and materials by airborne
chemical concentration**

Salles propres et environnements maîtrisés apparentés —

*Partie 15: Évaluation de l'aptitude à l'emploi des équipements et
des matériaux par la détermination de la concentration chimique
aéroportée*



Reference number
ISO 14644-15:2017(E)

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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.

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).

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For an explanation on the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 209, *Cleanrooms and associated controlled environments*.

A list of all parts in the ISO 14644 series can be found on the ISO website.

Introduction

Cleanrooms and associated controlled environments provide for the control of contamination to levels appropriate for accomplishing contamination-sensitive activities. Products and processes that benefit from the control of contamination include those in such industries as aerospace, microelectronics, optics, nuclear, and life sciences (pharmaceuticals, medical devices, food, healthcare).

This document addresses the cleanroom classification of air cleanliness by chemical concentration to the suitability of equipment for use in cleanrooms and associated controlled environments.

Examples and suitability assessments are given in [Annexes A, B and C](#).

Cleanrooms and associated controlled environments —

Part 15:

Assessment of suitability for use of equipment and materials by airborne chemical concentration

1 Scope

This document provides requirements and guidelines for assessing the chemical airborne cleanliness of equipment and materials which are foreseen to be used in cleanrooms and associated controlled environments which are linked to the ISO standard for cleanliness classes by chemical concentration (see ISO 14644-8).

The following are outside the scope of this document:

- health and safety requirements;
- compatibility with cleaning agents and techniques;
- cleanability;
- biocontamination;
- specific requirements of equipment and materials for processes and products;
- design details of equipment.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 14644-8:2013, *Cleanrooms and associated controlled environments — Part 8: Classification of air cleanliness by chemical concentration (ACC)*

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