

**Cleanrooms and associated controlled environments -
Part 10: Classification of surface cleanliness by
chemical concentration (ISO 14644-10:2013)**

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NATIONAL FOREWORD

See Eesti standard EVS-EN ISO 14644-10:2013 sisaldab Euroopa standardi EN ISO 14644-10:2013 ingliskeelset teksti.	This Estonian standard EVS-EN ISO 14644-10:2013 consists of the English text of the European standard EN ISO 14644-10:2013.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
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English Version

Cleanrooms and associated controlled environments - Part 10:
Classification of surface cleanliness by chemical concentration
(ISO 14644-10:2013)

Salles propres et environnements maîtrisés apparentés -
Partie 10: Classification de la propreté chimique des
surfaces (ISO 14644-10:2013)

Reinräume und zugehörige Reinraumbereiche - Teil 10:
Klassifizierung der chemischen Oberflächenreinheit (ISO
14644-10:2013)

This European Standard was approved by CEN on 2 February 2013.

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Foreword

This document (EN ISO 14644-10:2013) 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of an identical text or by endorsement, at the latest by September 2013, and conflicting national standards shall be withdrawn at the latest by September 2013.

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.

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Endorsement notice

The text of ISO 14644-10:2013 has been approved by CEN as EN ISO 14644-10:2013 without any modification.

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Cleanrooms and associated controlled environments —

Part 10:

Classification of surface cleanliness by chemical concentration

1 Scope

This part of ISO 14644 defines the classification system for cleanliness of surfaces in cleanrooms with regard to the presence of chemical compounds or elements (including molecules, ions, atoms and particles). This part of ISO 14644 is applicable to all solid surfaces in cleanrooms and associated controlled environments such as walls, ceilings, floors, working environment, tools, equipment and devices.

NOTE 1 For the purpose of this part of ISO 14644, consideration is only given to the chemical characteristics of a particle. The physical properties of the particle are not considered and this part of ISO 14644 does not cover the interaction between the contamination and the surface.

NOTE 2 This part of ISO 14644 does not include the contamination generation process and any time-dependent influences (deposition, sedimentation, ageing, etc.) or process-dependent activities such as transportation and handling. Neither does it include guidance on statistical quality control techniques to ensure compliance.

2 Normative references

The following referenced documents are recommended 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 14644-1:—¹⁾, *Cleanrooms and associated controlled environments — Part 1: Classification of air cleanliness by particle concentration*

ISO 14644-6, *Cleanrooms and associated controlled environments — Part 6: Vocabulary*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 14644-6 and the following apply.

3.1

air cleanliness by chemical concentration

ACC

level, expressed as an ISO Class *N*, which represents the maximum allowable concentration of a given chemical species or group of chemical species, expressed in grams per cubic metre (g/m³)

Note 1 to entry: This definition does not include macromolecules of biological origin, which are judged to be particles.

3.2

contaminant category

common name for a group of compounds with a specific and similar deleterious effect when deposited on the surface of interest

1) To be published. (Revision of ISO 14644-1:1999.)