# INTERNATIONAL STANDARD

ISO 14644-1

> Second edition 2015-12-15

### Cleanrooms and associated controlled environments —

Part 1:

## Classification of air cleanliness by particle concentration

Salles propres et environnements maîtrisés apparentés — Partie 1: Classification de la propreté particulaire de l'air



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#### **Foreword**

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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 209, Cleanrooms and associated controlled environments.

This second edition cancels and replaces the first edition (ISO 14644-1:1999), which has been technically revised throughout.

ISO 14644 consists of the following parts, under the general title *Cleanrooms and associated controlled environments*:

- Part 1: Classification of air cleanliness by particle concentration
- Part 2: Monitoring to provide evidence of cleanroom performance related to air cleanliness by particle concentration
- Part 3: Test methods
- Part 4: Design, construction and start-up
- Part 5: Operations
- Part 7: Separative devices (clean air hoods, gloveboxes, isolators and mini-environments)
- Part 8: Classification of air cleanliness by chemical concentration (ACC)
- Part 9: Classification of surface cleanliness by particle concentration
- Part 10: Classification of surface cleanliness by chemical concentration

Attention is also drawn to ISO 14698, Cleanrooms and associated controlled environments — Biocontamination control:

- Part 1: General principles and methods
- Part 2: Evaluation and interpretation of biocontamination data

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be monitored and the attribute's grade or level may be designated along with the classification of the ISO Class of cleanliness. These additional attributes do not suffice alone to classify a cleanroom or clean zone.