DIN EN ISO 14644-10:2022-10 (E)

Cleanrooms and associated controlled environments - Part 10: Assessment of surface cleanliness for chemical contamination (ISO 14644-10:2022)

Contents

Page

European foreword 3

Foreword 4

1 Scope 5

2 Normative references 5

3 Termsanddefinitions 5

4 Testing and grading surface chemical levels 6
4.1 Principles for testing the surface chemical contamination levels of clean surfaces in cleanrooms and controlled environments 6
4.2 ISO SCC descriptor format 6
4.3 ISO-SCC grade level 8
4.4 Converter for substances into surface atomic concentration 8

5 Measuring the cleanliness of surfaces for chemical contamination and demonstration of grade level compliance 9
5.1 Criteria for good cleanliness assessment 9
5.2 Documentation and reporting 10
5.2.1 Principle 10
5.2.2 Testing 10
5.2.3 Test report 10

Annex A (informative) Conversion between different unit expressions of surface concentration for chemical substances 12

Annex B (informative)Parametersinfluencingtestingandinterpretationofresults 19

Annex C (informative) Essential considerations for a good cleanliness assessment 20

Annex D (informative) Methods for testing surface cleanliness for chemical concentration 21

Annex E (informative) Test record documentation 33

Bibliography 34