ISO 14644-12:2018 (E)

Cleanrooms and associated controlled environments — Part 12: Specifications for monitoring air cleanliness by nanoscale particle concentration

Contents

Foreword

Introduction

1 Scope

2 Normative references

3 Terms and definitions

- 3.1 General
- 3.2 Size
- 3.3 Airborne particles
- 3.4 Occupancy states
- 3.5 Measuring apparatus

4 Monitoring

- 4.1 General
- 4.2 Principle
- 4.3 Methods

5 Test report

Annex A (informative) Reference method for monitoring by condensation particle counting

- A.1 Principle
- A.2 Apparatus requirements
- A.2.1 CPC instrument
- A.2.2 Condensation particle counter (CPC)
- A.2.3 Instrument calibration
- A.3 Particle counting efficiency and particle size cut-off
- A.4 Pretest conditions
- A.4.1 Preparation for testing
- A.4.2 Pretest equipment setup
- A.5 Sampling
- A.5.1 Establishment of sampling locations
- A.5.2 Sampling procedure for CPC
- A.6 Recording of results: Average concentration of particles at each sampling location
- A.7 Interpretation of results — requirements

Annex B (informative) Particle counting efficiency and particle size cutoff

- B.1 Counting efficiency
- B.2 Particle size cutoff device
- B.3 Nanoscale particle size distribution

Page count: 11