DIN EN ISO 29463-5:2019-05 (E)

High-efficiency filters and filter media for removing particles in air - Part 5: Test method for filter elements (ISO 29463 -5:2011)

Contents

Page

European foreword ... 3

Foreword ... 4

Introduction ... 5

1 Scope ... 6

2 Normative references ... 6

3 Terms and definitions ... 7

4 Description of the method ... 7
4.1 Alternate efficiency test method for groups H and U filters ... 8
4.2 Statistical efficiency test method for low efficiency filters — Group E filters ... 8

5 Test filter ... 8

6 Test apparatus ... 9
6.1 Test duct ... 9
6.2 Aerosol generation and measuring instruments ... 11

7 Conditions of the test air ... 15

8 Test procedure ... 16
8.1 Preparatory checks ... 16
8.2 Starting up the aerosol generator ... 16
8.3 Preparation of the test filter ... 16
8.4 Testing ... 16

9 Evaluation ... 17

10 Test report ... 18

11 Maintenance and inspection of the test apparatus ... 20

Annex A (normative) **Alternate efficiency test method from scan testing** ... 21

Annex B (informative) **Testing and classification method for filters with MPPS** ≤0,1 µm **(e.g. membrane medium filters)** ... 22

Annex C (normative) **Testing and classification of filters using media with (charged) synthetic fibres** ... 25

Annex D (informative) **Traditional efficiency test methods for HEPA and ULPA filters** ... 27

Bibliography ... 28