ISO 29463-1:2024-08 (E)

High efficiency filters and filter media for removing particles in air - Part 1: Classification, performance, testing and marking

Contents

Page

Foreword iv

Introduction v

1 Scope 1

2 Normative references 1

3 Terms and definitions 1

4 Symbols and abbreviated terms 3

5 Classification 4

6 Requirements 5
6.1 General 5
6.2 Material 6
6.3 Nominal air volume flow rate 6
6.4 Pressure difference 6
6.5 Filtration performance 6

7 Test methods -- General requirements and test procedures overview 6
7.1 General 6
7.2 Test rigs 6
7.3 Test conditions 7
7.4 Test aerosols 7
7.5 Test methods -- Principles 7
7.5.1 Test method for flat sheet filter media 7
7.5.2 Test method for determining the leakage of filter elements -- Scan method 11
7.5.3 Test method for determining the efficiency of filter elements 14
7.5.4 Remarks 16
7.5.5 Air flow distribution 16

8 Assessment of the filter, documentation and test reports 16

9 Marking 17

Annex A (informative) Filtration of nanoparticles 18

Annex B (informative) Summary of classification and test methods 19

Annex C (informative) Air flow distribution test on the autoscan testing system 21

Bibliography 27