ISO 29463-4:2011-10 (E)

High-efficiency filters and filter media for removing particles in air - Part 4: Test method for determining leakage of filter elements-Scan method

Contents

Page

Foreword iv

Introduction v

1 Scope 1

2 Normative references 1

3 Terms and definitions 2

4 Principle 2

5 Test filter 3

6 Test apparatus 3
6.1 Set-up of the test apparatus 3
6.2 Test duct 6
6.3 Scanning assembly 7
6.4 Aerosol generation and measurement techniques 8

7 Test air 9

8 Procedure 10
8.1 General 10
8.2 Preparatory checks 10
8.3 Starting up the aerosol generator 11
8.4 Preparing the test filter 11
8.5 Testing 11

9 Test report 12

10 Maintenance and inspection of the test apparatus 13

Annex A (normative) Oil thread leak test 15

Annex B (normative) Aerosol photometer filter scan test method 16

Annex C (normative) Determining the test parameters 20

Annex D (informative) Example of an application with evaluation 28

Annex E (informative) Leak test with solid PSL aerosol 31

Annex F (informative) 0,3 m to 0,5 m particle efficiency leak test 34

Annex G (informative) Calculation of aerosol challenge 36

Bibliography 38