

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