

# DIN EN ISO 29463-4:2019-05 (Englisc h)

## High-efficiency filters and filter media for removing particles in air - Part 4: Test method for determining leakage of filter elements-Scan method (ISO 29463-4:2011)

---

<b>Contents</b>	<b>Page</b>
European foreword .....	3
Foreword .....	4
Introduction.....	5
1 Scope.....	6
2 Normative references.....	6
3 Terms and definitions .....	7
4 Principle .....	7
5 Test filter .....	8
6 Test apparatus .....	8
6.1 Set-up of the test apparatus.....	8
6.2 Test duct.....	11
6.3 Scanning assembly.....	12
6.4 Aerosol generation and measurement techniques.....	13
7 Test air.....	14
8 Procedure .....	15
8.1 General .....	15
8.2 Preparatory checks .....	15
8.3 Starting up the aerosol generator.....	16
8.4 Preparing the test filter .....	16
8.5 Testing.....	16
9 Test report.....	17
10 Maintenance and inspection of the test apparatus.....	18
Annex A (normative) Oil thread leak test .....	20
Annex B (normative) Aerosol photometer filter scan test method.....	21
Annex C (normative) Determining the test parameters .....	25
Annex D (informative) Example of an application with evaluation .....	33
Annex E (informative) Leak test with solid PSL aerosol.....	36
Annex F (informative) 0,3 µm to 0,5 µm particle efficiency leak test.....	39
Annex G (informative) Calculation of aerosol challenge .....	41
Bibliography.....	43