

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