

DIN EN ISO 16890-3:2017-08 (E)

Air filters for general ventilation - Part 3: Determination of the gravimetric efficiency and the air flow resistance versus the mass of test dust captured (ISO 16890-3:2016)

Contents		Page
European foreword	3
Foreword	4
Introduction	5
1	Scope	7
2	Normative references	7
3	Terms and definitions	7
3.1	Air flow and resistance	8
3.2	Test device	8
3.3	Gravimetric efficiency	9
3.4	Other terms	10
4	Symbols and abbreviated terms	10
5	General test device requirements	11
5.1	Test device requirements	11
5.2	Test device preparation	11
6	Loading dust	12
7	Test equipment	12
8	Qualification of test rig and apparatus	15
8.1	Schedule of qualification testing requirements	15
8.2	Dust feeder air flow rate	15
8.3	Final filter efficiency qualification test	16
9	Test sequence dust-loading procedure	16
9.1	Test procedure for the filter	16
9.1.1	Preparation of the test device	16
9.1.2	Initial resistance to air flow	16
9.2	Dust loading	16
9.2.1	Dust loading procedure	16
9.2.2	Arrestance	17
9.2.3	Test dust capacity	18
10	Reporting results	18
10.1	General	18
10.2	Required reporting elements	18
10.2.1	Report values	18
10.2.2	Report summary	18
10.2.3	Report details	20
Annex A (informative) Resistance to air flow calculation		25
Bibliography		27