

DIN EN ISO 16890-1:2017-08 (E)

Air filters for general ventilation - Part 1: Technical specifications, requirements and classification system based upon particulate matter efficiency (ePM) (ISO 16890-1:2016)

Contents		Page
European foreword		3
Foreword		4
Introduction		5
1 Scope		7
2 Normative references		7
3 Terms and definitions		7
4 Symbols and abbreviated terms		10
5 Technical specifications and requirements		11
5.1 General		11
5.2 Material		11
5.3 Nominal air flow rate		11
5.4 Resistance to air flow		11
5.5 Fractional efficiency curves (particle size efficiency spectrum)		11
5.6 Arrestance		11
6 Test methods and procedure		12
7 Classification system based on particulate matter efficiency (ePM)		12
7.1 Definition of a standardized particles size distribution of ambient air		12
7.2 Calculation of the particulate matter efficiencies (ePM)		15
7.3 Classification		15
8 Reporting		16
8.1 General		16
8.2 Interpretation of test reports		17
8.3 Summary		18
Annex A (informative) Shedding from filters		23
Annex B (informative) Examples		25
Annex C (informative) Estimation of downstream fine dust concentrations		29
Bibliography		32