

DIN EN ISO 23210:2009-12 (E)

Stationary source emissions - Determination of PM₁₀/PM_{2,5} mass concentration in flue gas - Measurement at low concentrations by use of impactors (ISO 23210:2009)

Contents	Page
Foreword	3
Introduction	4
1 Scope	5
2 Normative references	5
3 Terms and definitions	6
4 Symbols and abbreviated terms	7
5 Principle of the method	9
6 Specification of the two-stage impactor	12
7 Sampling train	15
8 Preparation, measurement procedure and post-treatment	17
9 Calculation of the results	21
10 Performance characteristics	21
11 Reporting	24
Annex A (normative) Calculation of the sample volumetric flow rate of the impactor	25
Annex B (informative) General equations concerning impaction theory	32
Annex C (informative) Results of method validation	34
Annex D (informative) Influence of variations in the flue gas temperature and flue gas composition on the Reynolds number	40
Annex E (informative) Entry nozzle	42
Annex F (informative) Equipment list	43
Annex G (normative) Determination of a representative sampling point	45
Bibliography	46