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Stationary source emissions — Manual determination of mass concentration of particulate matter

*Émissions de sources fixes — Détermination manuelle de la
concentration en masse de poussières*



Reference number
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Contents

Page

Foreword.....	iv
Introduction	v
1 Scope.....	1
2 Normative references	1
3 Terms and definitions.....	1
4 Principle	4
4.1 General.....	4
4.2 Interferences.....	5
5 Sampling plane and sampling points	5
5.1 General.....	5
5.2 Sampling plane.....	6
5.3 Requirements for sampling points.....	6
5.4 Minimum number and location of sampling points.....	6
5.5 Access ports.....	7
5.6 Sampling time.....	7
6 Apparatus and materials	8
6.1 Gas velocity, temperature, pressure, and gas composition measurement devices.....	8
6.2 Sampling equipment.....	8
6.3 Equipment for particulate matter recovery	14
6.4 Equipment for conditioning and weighing.....	14
7 Sampling and weighing procedures	15
7.1 General aspects	15
7.2 Weighing procedure	16
7.3 Sampling	18
7.4 Validation of results.....	21
8 Additional aspects	22
8.1 Thermal behaviour of particulate matter	22
8.2 Particulate deposits upstream of the filter	24
8.3 Improvement of the weighing procedure	24
9 Calculations.....	24
9.1 Isokinetic flowrate.....	24
9.2 Dust concentration	25
10 Performance characteristics.....	26
10.1 General aspects	26
10.2 Experimental data for sampling	27
11 Test report	27
Annex A (normative) Proven design of the entry nozzle.....	29
Annex B (normative) Determination of positions of sampling points in circular and rectangular ducts.....	30
Annex C (informative) Examples of weighing bias	34
Annex D (informative) Isokinetic sampling conditions.....	36
Annex E (informative) Summary validation information	38
Annex F (informative) Examples of suitable access ports for sampling equipment.....	41

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 9096 was prepared by Technical Committee ISO/TC 146, *Air quality*, Subcommittee SC 1, *Stationary source emissions*.

This second edition cancels and replaces the first edition (ISO 9096:1992), which has been technically revised.

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Introduction

Close liaison and cooperation between ISO/TC 146/SC 1 and CEN/TC 264 has resulted in the preparation of this International Standard (ISO 9096), ISO 12141 and European Standard EN 13824-1. This International Standard is similar to EN 13284-1 with additional emphasis given on the use of high-volume sampling techniques. A representative, integrated sample is extracted from the flue gas and particulate matter entrained in the gas sample is separated by a filter. The pre-weighed filter is subsequently dried and weighed. A relative increase in the mass is attributed to the collection of particulate matter on the filter.

To meet the specifications of this International Standard, the particulate sample must be weighed to a specified level of accuracy. This level of accuracy is achieved by:

- a) exercising extreme care in weighing, in accordance with the procedures of this International Standard;
- b) extending the sampling time at conventional sampling rates;
- c) sampling at higher rates for conventional sampling times (high-volume sampling);
- d) recovering all dust upstream of the filter.