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Cigarettes - Sampling

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Tobacco, tobacco products and related equipment

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INTERNATIONAL STANDARD

ISO 8243

Fourth edition 2006-09-15

Cigarettes — Sampling

Cigarettes — Échantillonnage

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ISO 8243:2006(E)

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 8243 was prepared by Technical Committee ISO/TC 126, Tobacco and tobacco products.

This fourth edition cancels and replaces the third edition (ISO 8243:2003), which has been technically revised.

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Introduction

It is difficult to recommend a detailed method of sampling cigarettes, suitable for every purpose. The objective of sampling is clearly, to provide a representative sample, but the problem arises because the specific purpose for which tests are required affects the recommendation.

Existing national standards, rules, regulations and laws were taken into account when preparing this International Standard and two different procedures both of which are simple and reliable are described:

- sampling at the point of sale;
- sampling at the producer's premises or importer's and distributor's warehouses.

Sampling is carried out "at one point in time" (e.g. cigarettes available for distribution from a factory/warehouse or available at a retail outlet on the market on a scheduled day). When a sample is required which represents cigarettes available over an appreciable period of time (e.g. cigarettes representing several months' production) a number of sub-period samples will be taken in a series of samplings, and the results combined.

Since this International Standard was originally written in 1981, its role in providing a basis of sampling cigarettes for the verification of on-pack declarations of smoke constituent yields has become increasingly important. For this reason a guide to the statistical evaluation and reporting of results is included to clarify the statistical basis of the confidence intervals for nicotine-free dry particulate matter (NFDPM), nicotine and carbon monoxide (CO) that are listed in Table 3.

The sources of variability arising in cigarette manufacture and in the determination of smoke constituent components are described in Annex B and in Technical Report ISO/TR 22305. It is recommended that determinations of smoke constituent yields should be made on the population manufactured for sale, sampled at manufacturers' factories or importers' warehouses and that because of variations in cigarette manufacture the "sampling over a period of time" mode should be used wherever possible.

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Cigarettes — Sampling

1 Scope

This International Standard specifies two methods of providing representative samples of a population of cigarettes manufactured for sale. Different procedures are specified (see Table 1) according to whether sampling is undertaken at the point of sale or at a factory.

- a) Sampling "at one point in time" provides for appraisal of the chosen properties of the cigarettes on that occasion. Sampling is carried out within as short a period as possible.
- b) Sampling "over a period of time" provides for on-going appraisals. It can be considered for practical purposes as a series of samples each taken "at one point in time".

		iTeh STAN	DARD PREV ^S amplin	g mode	
		Sampling procedures (stan	At one time	Over a period (continuous)	
	Α	At point of sale	Subclause 4.1	а	
	В	At a factory https://standards.iteh.ai/catalo	IST ISO 8243:2008 Subclause 4.2 pg/standards/sist/838246bb-3802-446a-	h9a6- Clause 5	
а	Procedure A over a period of time is possible but is not specified in this international Standard.				

Table 1 — Sampling possibilities

This International Standard provides information on the statistical basis for the treatment of data and gives estimates, based on practical experience, of the typical confidence intervals for NFDPM, nicotine and CO yields which may be found when a product is sampled in accordance with this International Standard and smoked in accordance with the procedures specified in ISO 3308, ISO 3402, ISO 4387, ISO 8454, ISO 10315, ISO 10362-1 and ISO 10362-2.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 2602:1980, Statistical interpretation of test results — Estimation of the mean — Confidence interval

ISO 4387:2000, Cigarettes — Determination of total and nicotine-free dry particulate matter using a routine analytical smoking machine

ISO 5725-2:1994, Accuracy (trueness and precision) of measurement methods and results — Part 2: Basic method for the determination of repeatability and reproducibility of a standard measurement method

ISO 8454:1995, Cigarettes — Determination of carbon monoxide in the vapour phase of cigarette smoke — NDIR method

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