

Third edition
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Fine-cut tobacco and smoking articles made from it — Methods of sampling, conditioning and analysis —

Part 3:

Determination of total particulate matter of smoking articles using a routine analytical smoking machine, preparation for the determination of water and nicotine, and calculation of nicotine-free dry particulate matter

Tabac à rouler et objets confectionnés à partir de ce type de tabac — Méthodes d'échantillonnage, de conditionnement et d'analyse —

Partie 3: Dosage de la matière particulaire totale des objets à fumer au moyen d'une machine à fumer analytique de routine, préparation pour le dosage de l'eau et de la nicotine, et calcul de la matière particulaire anhydre et exempte de nicotine



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Contents

	Page
Foreword.....	v
Introduction.....	vii
1 Scope.....	1
2 Normative references.....	1
3 Terms, definitions and symbols.....	2
3.1 Terms and definitions.....	2
3.2 Symbols.....	3
4 Principle.....	3
5 Apparatus.....	4
6 Sampling.....	6
7 Wrapper used for making FCSAs.....	6
7.1 General.....	6
7.2 Manufacture of standard tubes from the wrapper.....	6
7.3 Determination of average tube mass.....	6
8 Making of the laboratory fine-cut smoking articles.....	6
8.1 General.....	6
8.2 Specification of the FCSAs to be made.....	6
8.3 Preparation and selection of the FCSAs for test.....	7
8.4 Special precautions.....	7
9 Determination of total particulate matter.....	8
9.1 Preparation of the fine-cut smoking articles for smoking.....	8
9.1.1 Number of samples.....	8
9.1.2 Selection of test portions from a bulk of <i>Q</i> FCSAs.....	8
9.1.3 Duplicate test portions.....	8
9.2 Marking the insertion depth and butt length.....	8
9.2.1 Standard insertion depth.....	8
9.2.2 Standard butt length.....	8
9.2.3 Marking the insertion depth and butt length.....	8
9.3 Conditioning and testing conditions.....	9
9.4 Preliminary tests before smoking.....	9
9.5 Smoking and collection of particulate matter.....	9
9.5.1 Smoking plan.....	9
9.5.2 Preparation of smoke traps and FCSA holders.....	10
9.5.3 Setting up the smoking machine.....	10
9.5.4 Procedure for smoking run.....	11
9.6 Removal of smoke traps and FCSA holders.....	11
9.7 Calculation of total particulate matter.....	11
9.8 Treatment of total particulate matter for the determination of water and nicotine.....	12
9.8.1 Extraction procedure.....	12
9.8.2 Water determination and calculation of DPM.....	12
9.8.3 Nicotine determination and calculation of NFDPM.....	12
10 Test report.....	13
10.1 General.....	13
10.2 Characteristic data about the fine-cut tobacco.....	13
10.3 Sampling.....	13
10.4 Description of test.....	13
10.5 Test results.....	14
11 Precision and collaborative study.....	14
11.1 Collaborative wrapper study.....	14
11.2 Precision.....	14

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Annex A (normative) Wrapper specification	16
Annex B (normative) Expanded tobacco	17
Bibliography	19

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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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 126, *Tobacco and tobacco products*.

This third edition cancels and replaces the second edition (ISO 15592-3:2008), which has been technically revised.

The main changes are as follows:

- the Introduction has been revised;
- the Normative references have been updated;
- a new term "expanded tobacco" has been added;
- requirement for fine-cut smoking articles with 5,2 mm diameter has been deleted;
- Teepol L has been deleted;
- the unit for the average draw resistance has been extended by mm WG (water gauge);
- former Annex A "Summary of report of the CORESTA task force on roll-your-own (fine-cut) tobacco" has been deleted and subsequent annexes have been relabelled;
- the wrapper specifications for wrapper type A have been modified for filler CaCO₃, whiteness and opacity (new [Annex A](#));
- wrapper specifications for wrapper type B have been deleted;
- a new [Annex B](#) "Expanded tobacco" has been added;
- Annex C "Classification of wrappers" has been deleted;
- Annex D "Fine-cut tobacco stated to be used with specified wrappers" has been deleted;
- Annex E "Effect of incorporation of loose filters" has been deleted;

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— the Bibliography has been updated.

A list of all parts in the ISO 15592 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

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Introduction

Smokers make smoking articles by enclosing fine-cut tobacco in a suitable wrapper (sometimes incorporating a filter) either by hand or by using a rolling/tubing machine. The scientific literature has shown that the quantity of fine-cut tobacco, the type of wrapper chosen and the size of the articles made vary widely between consumers and between countries^[1].

When the article is smoked, the yield of nicotine free dry particulate matter [NFDPM (sometimes referred to as "tar")] and nicotine is determined by the construction of the article. This document has been developed to specify how articles are made in the laboratory, how they are tested. Fine-cut smoking articles made by consumers can therefore differ from the fine-cut smoking articles made for the purpose of testing described in this document.

One smoking article is made using one mass of fine-cut tobacco and one tube made from a specified wrapper (see [Annex A](#)).

It should be noted that because the use of fine-cut tobacco is so dependent on the way in which an individual makes a smoking article, a comparison of the smoke yield with the single result from factory-manufactured cigarettes according to ISO 4387 is of limited value.

This document also gives further necessary procedures as follows in [Annex B](#).