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Leaf tobacco — Determination of strip particle size

Tabac en feuilles — Détermination de la taille des particules de strips



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Foreword

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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.

International Standard ISO 12194 was prepared by Technical Committee ISO/TC 126, *Tobacco and tobacco products*, Subcommittee SC 2, *Leaf tobacco*.

Annexes A to C of this International Standard are for information only.

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Leaf tobacco — Determination of strip particle size

1 Scope

This International Standard specifies a method for the measurement of the particle size of strips of leaf tobacco.

It is applicable to strips arising from the operation of threshing or hand-stripping leaf tobacco, which can be from any tobacco type including flue-cured, burley and cigar tobacco.

The test method consists of taking a sample of strips and passing it over a four-tray quality-control shaker.

2 Normative reference

The following standard contains provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the edition indicated was valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent edition of the standard indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 3310-1:1990, *Test sieves — Technical requirements and testing — Part 1: Test sieves of metal wire cloth*.

3 Definitions

For the purposes of this International Standard, the following definitions apply.

3.1 lamina: Area between the veins of a tobacco leaf.

3.2 strips: Long pieces of threshed or stripped lamina.

3.3 threshing: Removal of the stem and side veins of tobacco leaves by mechanical means.

3.4 stripping: Removal of the stem from tobacco leaves, leaving the halves of the leaf more or less intact.

3.5 quality-control shaker: Apparatus that separates the strips into five particle sizes by passing them over four screens.

4 Apparatus

4.1 Quality-control shaker

The quality-control shaker consists of a feedband conveyor, four sieving trays, and a fines-collection bin, all of which are mounted on a robust frame. Separation is carried out by vibrating the four trays, each of which is fitted with a different mesh screen. These are arranged above each other in such a way that particles falling through one screen are exposed to at least 660 mm of the next screen. Any strips passing over a screen are automatically collected in separate bins at the end of each shaker screen. A diagram of the general design of the quality-control shaker is shown in figure 1.

4.2 Sieving screens

4.2.1 The four screens fitted to the quality-control shaker should be of wire mesh, constructed from stainless steel in accordance with the specification given in ISO 3310-1. The screens shall have the dimensions given in table 1. Diagrams of the screen set-up are shown in annex A.