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Cocoa beans — Sampling

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FOREWORD

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO Member Bodies). The work of developing International Standards is carried out through ISO Technical Committees. Every Member Body interested in a subject for which a Technical Committee has been set up 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.

Draft International Standards adopted by the Technical Committees are circulated to the Member Bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 2292 was drawn up by Technical Committee ISO/TC 34, Agricultural food products, and circulated to the Member Bodies in April 1971.

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It has been approved by the Member Bodies of the following countries:

ISO 2292:1973

Austria https://standards.iteh.ai/catalog/standards/sist/b048f7e0-4f98-462f-97ad-

Brazil India c0afa15 South Africa, Rep. of

BulgariaIrelandSpainCeylonIsraelSwedenChileNetherlandsThailandEgypt, Arab Rep. ofNew ZealandTurkey

France Poland United Kingdom

Germany Portugal

No Member Body expressed disapproval of the document.

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0 INTRODUCTION

Correct sampling is a difficult operation which requires most careful attention. Emphasis cannot therefore be too strongly laid on the necessity of obtaining a properly representative sample of cocoa beans for examination.

The procedures given in this International Standard are recognized as good practice and it is strongly recommended that they be followed whenever practicable. It is recognized that it is difficult to lay down fixed rules to be followed in every case and that particular circumstances may render some modification of the method desirable.

- 2.4 bulk sample: A quantity of cocoa beans formed by combining and mixing the primary samples from different positions in the lot.
- 2.5 reduced sample: A quantity of cocoa beans obtained, if necessary, by the reduction of the bulk sample and from which is taken the final lot sample.
- 2.6 final lot sample (laboratory sample) : A small sample representative of the quality of the lot, obtained from the bulk sample or the reduced sample and intended for laboratory examination.

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1 SCOPE AND FIELD OF APPLICATION Standards. 31 GENERAL

This International Standard specifies general conditions relating to sampling for the assessment of the quality of 292:1 designated or approved by the parties concerned. cocoa beans. https://standards.iteh.ai/catalog/standards/sist/b048f7e0-4f98-462f-97ad-

specified by ISO 24511), Cocoa beans - Specification, but it also gives the procedure to be followed for sampling cocoa beans in bulk

2 DEFINITIONS

For the purpose of this International Standard, the following definitions apply:

- 2.1 consignment: A quantity of beans despatched or transported at one time and covered by a particular contract or shipping document.
- 2.2 lot: A quantity of merchandise assumed to be of uniform characteristics, taken from the consignment and permitting the quality of the merchandise to be assessed.

Lots should not exceed the sizes specified in 3.2 and each final sample should represent only one lot.

2.3 primary sample: A small quantity of cocoa beans taken from a single position in the lot.

- 3.1 Sampling shall be carried out by sampling experts
- It relates to the sampling of cocoa beans packed in sacks as 150-23.2-17he complete consignment shall be examined in lots of not more than 25 tonnes on despatch and not more than 200 tonnes on arrival.
 - 3.3 The samples shall be representative of the lots defined in 3.2 and, since the composition of the lots is usually to some extent heterogeneous, a bulk sample shall be taken from each lot by drawing a certain number of primary samples and carefully mixing them. The sample for laboratory examination shall be obtained by successive reductions of this bulk sample.

The sampling of beans which are sea-damaged, or otherwise damaged in transit, or in poor condition, as well as loose collected²⁾ or rejects, shall be carried out separately from the sampling of sound beans. These products shall not be mixed with sound material, but shall be assessed separately.

3.4 Special care is necessary to ensure that all sampling apparatus is clean, dry and free from foreign odours.

Sampling shall be carried out in such a way as to protect the samples of cocoa beans, the sampling instruments and the containers in which the samples are placed, from adventitious contamination such as rain, dust, etc.

- 1) At present at the stage of draft.
- 2) This term is used to designate material which has leaked from its original container but which is not unduly contaminated.

Matter adhering to the outside of the sampling instrument shall be removed before the instrument is emptied of its contents.

4 APPARATUS

4.1 Sampling from bags

Sampling spear (open trier) specially designed for bags (see Figure 1 for an example).

4.2 Sampling from bulk

Hand scoops, triers or other appropriate apparatus for drawing small samples periodically from a flow of cocoa beans.

4.3 Mixing and dividing

Conical divider of the type shown in Figures 2 and 3 or, failing this, quartering irons or other suitable dividing apparatus.

5.2 Bulk sample

To obtain the bulk sample, combine the primary samples and mix them carefully.

5.3 Reduced sample - Final lot samples

Reduce the bulk sample by division, using the apparatus mentioned in 4.3, until a reduced sample is obtained of a size depending on the number of final lot samples necessary and on their mass.

The number of final lot samples to be made up for examination and arbitration should be specified in the contract or should otherwise be the subject of an agreement between buyer and seller; it may also be specified by an official agency concerned with checking.

A mass of 2 kg per final lot sample is usually sufficient.

A larger or smaller sample may be requested in certain cases, depending on the tests which have to be carried out.

6 PACKING AND MARKING OF FINAL LOT SAMPLES

iTeh STANDA^{6,1} Packing of samples W

The containers for the samples and the closure systems (standar provided for them should be perfectly clean and dry. They should be of a material not likely to affect the odour, taste or composition of the product; for example: fabric with a list 22 close weave, strong paper, board, metal, suitable plastics https://standards.iteh.ai/catalog/standards.ite

Samples for the determination of moisture content, or for any analysis likely to be affected by an alteration in the moisture content, should be packed in hermetically sealed water-tight containers. The containers should be completely filled and the closures should be sealed in such a way as to prevent any alteration of the initial moisture content.

Packages should carry the seal of each of the samplers designated or approved by the parties concerned.

6.2 Labels for samples

If paper labels are used for samples of cocoa beans, they should be of a suitable size and of a suitably high quality for the purpose. The eyelet hole in the label should be reinforced. The label should be sealed to the container holding the sample and should carry the seal of each of the samplers designated or approved by the parties concerned.

The following minimum information should be given on the labels:

- 1. Ship, vehicle or warehouse
- From (in the case of transport by ship or vehicle)
- 3. To
- 4. Arrived
- 5. Quantity

5 METHOD OF SAMPLING

5.1 Primary samples

According to circumstances, primary samples should be taken from bulk products or from bags as indicated in 5.1.1 and 5.1.2

A minimum of 300 beans should be taken per tonne or fraction of a tonne.

5.1.1 Bags

Primary samples should be taken from at least one-third of the bags in each lot, the bags being drawn at random throughout the lot. They should be taken by means of an open trier, at random, from the top part, the centre and the bottom part of bags in good condition.

5.1.2 Bulk

At least five primary samples should be taken per tonne or fraction of a tonne.

- **5.1.2.1** When sampling is carried out while the product is in motion, the primary samples should be taken through the whole section of the flow of beans, at intervals determined by the rate of flow.
- **5.1.2.2** When the sampling of beans in bulk takes place when the product is on a clean surface, the primary samples should be drawn from the upper part, the middle and the lower part of the heap after the beans in the lot have been carefully mixed.

- 6. Bulk/bags (number)
- 7. Goods
- 8. Identification mark or lot No.
- 9. No. and date of the bill of lading or of the contract
- 10. Date of sampling
- 11. Place and point of sampling
 (in the case of products in motion in particular, indicate whether sampling took place on entry to, or on leaving, the transit system)
- 12. Sampled by

The information on the label should be legible and indelible.

7 DESPATCH OF SAMPLES

Final lot samples should be despatched immediately after the termination of sampling.

8 SAMPLING REPORT

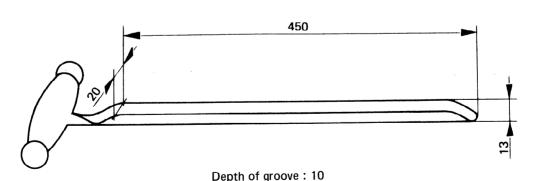
If a sampling report is prepared, it should indicate the technique applied if it differs from that described in this International Standard, the method of reduction used and all the circumstances that may have influenced the sampling.

It should also indicate the state of the lot and any factor observed by the sampler which might affect its condition in the future (for example, infestation).

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Dimensions in millimetres (for guidance only)



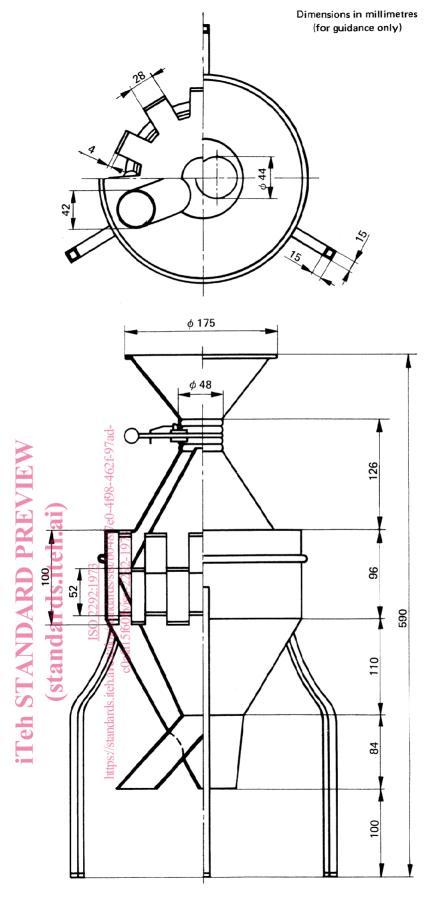


FIGURE 2 — Conical divider

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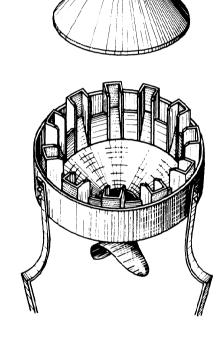


FIGURE 3 — Parts of the conical divider

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