International Standard



INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • MEX CHAPODHAR OPPAHUSALUR TO CTAHDAPTUSALUU • ORGANISATION INTERNATIONALE DE NORMALISATION

Agricultural food products — Layout for a standard method of sampling from a lot

Produits agricoles alimentaires - Présentation d'une méthode normalisée d'échantillonnage à partir d'un lot

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Descriptors : agricultural products, food products, sampling, standards, vocabulary.

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.

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. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 7002 was prepared by Technical Committee ISO/TC 34, Agricultural food products.

Users should note that all International Standards undergo revision (from time to time and that any reference made herein to any other International Standard implies its -a28a-430a-806e-latest edition, unless otherwise stated.

Agricultural food products - Layout for a standard method of sampling from a lot

Scope and field of application 1

This International Standard establishes a general layout for standard methods of sampling from lots of agricultural food products.

It gives only general rules for drafting standard methods of sampling. It cannot be used itself, therefore, for sampling products; testing, inspection and acceptance procedures are dealt with to such an extent as to make the user aware of the meaning of further references.

No provision should be made in this sequence of numbers for numbers referring to clauses or sub-clauses of the layout which have not been included in the document (see 2.1).

This consecutive numbering scheme is also recommended when dealing with a broadly based document embracing several methods of sampling, or variants of a given method, constituting different sections of a document.

2 General

(standards.iteh.ai Use should be made of standardized sampling terninology, including statistical concepts, in particular that given in the ISO 7002:19 International Standards prepared by ISO/TC 69, Applications 2.1 Use of the layout https://standards.iteh.ai/catalog/standards/sis/f statistical methods.

PREVIEW

Terminology

2.4

bd187ce5ef12/iso-7002-1986

In making use of the layout (see clause 3), it should be remembered that it is for guidance only, and it will have to be adapted in each case to suit individual requirements. Thus, some of the clauses or headings may be omitted in certain instances whilst, in others, additions may be needed in appropriate places to cater for special requirements.

2.2 Plan of the document

In all cases, when drafting a method of sampling, clauses should be arranged in the order given in the layout, if they are to be included in the document.

In this way, the drafter of the method will find it easier to set out systematically all the information needed, with less risk of overlooking any important item. Moreover, the user of the document, knowing that it conforms to this layout, will be able more readily to refer to any clause, whatever may be the origin and scope and field of application of the method. (This is particularly important when considering a partial translation of a method, and in comparing different methods or different versions of a method.)

2.3 Numbering of clauses and sub-clauses

Clauses and sub-clauses shall be numbered consecutively throughout the document, in accordance with the point numbering system described in ISO 2145, Numbering of divisions and subdivisions in written documents.

In some cases, terms other than those standardized by ISO/TC 69 are used in trade in agricultural food products; definitions relating to the sampling of agricultural food products are given in annex A, and a list of the equivalent English and French terms in annex B. Where traditional usage differs from the standardized terminology, a reference should be made to the standard term, for example by including it as a synonym for the traditional term.

When several synonyms may express the same concept in one of the official ISO languages, preference should be given to that most closely corresponding to the term or terms in the other official ISO languages.

Where there is no similarity of terms in the different languages to express the same concept, and where there exist internationally recognized symbols or abbreviations, these should be used after the terms in the different languages, in order to assist readers of all languages.

2.5 Choice and wording of methods of sampling

As far as possible, the same sampling methods, used as a basis for the assessment of a given characteristic for a given product, should be adopted in all International Standards for related products; the wording used should be as similar as possible. An exception may be made where, in the field in guestion, this will be contrary to a reasonable and well-established practice which it is desired to retain.

- 3 Preferred arrangement (for comments on individual headings and clauses, see clause 4)
 - 1 Title
 - Introduction 2
 - 3 Scope
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- 12.3 Preparation of bulk sample and reduced samples
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 - 15.3 Material sampled
 - 15.4 Sampling method
 - 15.5 Marking and sealing of samples
- 16 Annexes

4 Rules for drafting individual elements and clauses

NOTE — The following rules supplement those laid down in Parts 2 and 3 of the *Directives for the Technical Work of ISO*.

4.1 Title

The title of the International Standard shall express as concisely as possible, and without ambiguity, the contents of the document, indicating in the following order:

a) the product concerned, in the form in which it figures in the lot to be sampled;

b) the category of samples finally to be obtained, and the purpose for which the sample(s) is/are intended (if specific).

Example:

ISO 6670, Instant coffee in cases with liners - Sampling.

4.2 Introduction

of harmful contaminants from agriculture or processing, the presence of bacteria or their metabolites causing various diseases or food deterioration),

2) for quality control or quality inspection during the process of production or manufacture,

3) for control and inspection of the net contents of unit packages,

4) for examination to establish the identity of an unknown material,

5) for examination to confirm the identity of a supposedly known material,

6) for examination to determine, from its characteristics, the source of a given material,

7) to determine the normal and natural composition of materials so that significant deviations may be detected,

 for examination to verify that a given material is of the type or quality suitable for the purpose for which it is intended or suggested to be used,

The introduction, if any, to the international Standard shall be **PD PD** to monitor the changes in a property with time; background to the choice of the method selected, and of the layout adopted, together with any other information required for the understanding and use of the International Standard.

		<u>ISO 7002:1986</u>	
4.3	Scope	https://standards.iteh.ai/catalog/standards/sist/946	different for examination to verify that the material being
		bd187ce5ef12/iso-7002-19	statutory requirements (consumer protection, hygiene
Inis	clause shall define the	e content of the International Stan-	control, etc.),

dard, i.e. the features of the operations called for, and the product or products to which it applies. It shall reflect and amplify the title of the International Standard.

For convenience, this element should be combined with element 4.4 under the heading "Scope and field of application".

Mention shall be made, where appropriate, of the purposes for which the sample(s) is/are required. These may, in particular, relate to one or more of the following purposes of sampling:

a) **commercial purposes**: for example, to procure or prepare a sample:

1) to serve as a basis for an offer for sale,

2) for examination to verify that the material to be offered for sale satisfies the manufacturer's sales specification,

 for examination as to whether the delivery complies with a contract specification;

b) **technical purposes:** for example, to procure or prepare a sample:

1) for examination to determine one or more of the characteristics of the material, including those affecting health and safety (for example, for foods, the presence

2) for retention as a reference sample,

3) for examination in connection with criminological investigations,

4) for examination in connection with processes which discharge the material into the surroundings, and for which statutory control exists as to their nature and composition.

 $\mathsf{NOTE}-\mathsf{The}$ preparation of test samples from laboratory samples does not fall within the scope of a method for sampling from a lot.

4.4 Field of application

This clause shall contain all the information required to enable the user to judge whether the International Standard is applicable to the product or products being considered, or whether limitations exist, bearing in mind:

a) the purpose for which the samples are required;

b) the maximum acceptable sampling error if this purpose is to be achieved within the precision limits deduced from, for example, probability levels, using these samples and taking into account the tests to which they are to be submitted. It shall contain in particular an indication of the product or products to which the method applies, and the limits between which the method can be used without alteration. The limits shall take into account the incidence of variability within the lot and the need, for instance, to insert ancillary operations, such as sorting into sub-lots, and particular examinations on the site or in the laboratory. The various factors to be considered in defining the field of application of the document include the following:

a) intended purpose of the product (for example, direct consumption, raw material, intermediates, process additive, by-product for disposal, or finished material);

b) physical state of the product (for example, liquid, powder, coarse lumps, gas);

c) size of the consignment or lot;

d) whether the method is applicable to bulk or packed material; in the latter case, if necessary, the size, nature and number of containers should also be indicated;

e) the type of examination for which the samples are required (for example, physical, chemical, sensory, bacteriological or combined tests);

f) the level of distribution in trade (for example, wholesale DARD several groups constituting a lot, or retail).

(standards.i2)e bequential sampling, which involves inspection, testing, or both, as well as sampling.

4.5 References

ISO 7002:1986

This clause shall give a complete list of other documents which stand The reasons shall also include an indication as to whether the are indispensable for the application of the International Stancescell method of sampling is based partly or completely on statistical dard.

 $\mathsf{NOTE}-\mathsf{This}$ list is not intended to include documents which have merely served as references in the preparation of the standard; such documents can be mentioned, if necessary, in the clause or sub-clause concerned.

4.6 Definitions

The terms used in the document shall be selected as far as possible from those defined in annex A to this International Standard, to which reference shall be made. Any such terms, and any additional terms, shall be given with their definitions in this clause, if it is desired to reproduce them for the convenience of the user of the document, or if they are required for the proper understanding of the text. (See also 2.4.)

4.7 Principle (of the method of sampling)

This clause should briefly define the essential steps of the method to be used, giving the reasons that justify the choice of the particular procedures. The nature of the product to be sampled, the purpose of sampling and an appropriate sampling plan set at the desired level of inspection, often determine the method to be used.

This clause should include the operating characteristic of the sampling plan used, and any assumptions made in calculating this characteristic. The method of sampling selected is depenThe reasons shall also include an indication as to whether the method of sampling is based partly or completely on statistical principles, or follows an established scheme of an arbitrary nature based on experience or expediency (composite sample, multiple sampling, multi-stage sampling etc.). Wherever possible, sampling should be based on statistical principles, and if so the estimated or assessed sampling errors shall be stated. To enable the sampling risks to be assessed in the case of products where the distribution of the variable is unknown, an assumption of normal distribution is often made.

dent on the principle that has been adopted, as well as on the

field of application. Examples of different purposes for which

a) sampling to assess the heterogeneity of a bulk lot;

a lot and the type of frequency distribution in that lot;

parts of a lot (zone sampling, stratified sampling);

taking into consideration the severity of defects;

sampling to assess the variability between individuals of

sampling to assess the mean of a characteristic of a lot;

sampling to assess the variability between different

sampling to assess the number of defects in a lot,

sampling as part of other more complex schemes such

1) quota sampling, which involves, in the case of a

f) sampling to assess the variability, with time, of a product in movement (continuous, kinetic, or periodic

sampling is carried out are:

systematic sampling);

b)

c)

d)

e)

g)

as:

4.8 Administrative arrangements

This clause shall briefly indicate the necessary administrative arrangements, if any, to which it is desired to draw the attention of the user of the International Standard.

4.8.1 Sampling personnel

Under this heading, particulars of the number and type of sampling personnel required, including requirements for specialist and supervisory staff, may be given. Where appropriate, an indication of the training and qualifications should be given. In the case of sampling for statutory purposes, attention shall be drawn to the need for officially appointed sampling officers.

NOTE - In certain cases, it may be useful to refer to the existence of specialized sampling organizations which undertake sampling under contract for commercial or arbitration purposes.

4.8.2 Representation of parties concerned

Where the standardized method of sampling is to be used, or may be needed, in connection with enforcement legislation, disputes, arbitration proceedings etc., for which appropriate evidence is necessary of the authenticity of the samples taken, this shall be clearly stated and arrangements for representation of the parties concerned, for witnessing the sampling operations themselves, shall be indicated. Recourse may often be made to independent sampling agents to represent certain parties.

The following are a few examples of the parties, or their agents, by whom representation may be required:

- a) owners, manufacturers, processors, producers or vendors, of the product constituting the lot;
- b) owners of the container in which the product is stored or transported;
- transporters of the lot; c)
- d) the insurers involved;

listed.

- iTeh STANDARD
- e) the purchasers of the lot.

If sampling is aimed at determining compliance with statutory are applied; requirements, sampling shall be carried out in accordance with 002:1986 the terms laid down by government. If the lot is involved ards/sist/9f)61 specify how to deal with adventitious contaminants that in litigation, permission of the authorities may be required for bulls/ccoch12/iso-7002can8be easily removed, if desired, before sampling comfurther sampling and for the presence of any of the parties

4.8.3 Health, safety, and security precautions

When appropriate, provision should be made in the International Standard for suitable instructions to minimize any health and safety hazards, and security risks, during sampling. For this purpose, reference should be made to any relevant codes of hygiene or safety concerning the handling of the products in question, and to operations in the area where sampling is to be carried out; mention should also be made of essential safety equipment, sanitary facilities, etc. Instructions for dealing with spillages, breakages, waste materials, or residues should be provided where necessary, including advice on antidotes, fire-fighting measures, etc. These instructions may affect the marking requirements referred to in 4.13 and 4.14.

4.8.4 Signing of sampling report

Attention should be drawn to the need, in the cases referred to in 4.8.2, for the signing and countersigning of sampling reports by the parties concerned. Moreover, reports issued by sampling officers taking part - on request - in sampling for other than statutory purposes are required to state whether or not the methods by which the samples are taken are in accordance with statutory requirements.

4.9 Identification and general inspection of the lot prior to sampling

This clause should recall the need to:

a) identify the lot in question before any samples are taken, and for this purpose to compare, as appropriate, the number, mass or volume of the lot, and the markings on containers and labels, with the entries on the relevant documents:

b) note any features concerning the condition of the lot and of the surroundings, relevant to the taking of representative samples which are required for the sampling report;

c) segregate damaged portions of the lot and/or, if the lot is unduly heterogeneous, divide it into portions with more similar properties, which will then be treated as separate lots:

d) specify how to mark, if required, individual units or parts of the lot, with consecutive serial numbers for use subsequently in the taking of random samples using random number tables; usually, the numbering of items is arbitrary or a conceptual convenience, but selection of items should be based on the numbering scheme employed;

(standards.iteh specify the intervals or stipulations on the rules of acceptance or rejection when the relevant sampling methods

> 4.10 Sampling equipment and ambient conditions

mences, and if necessary retained for examination.

This clause should specify all the equipment and apparatus required to carry out the specified sampling operations, these items being listed in a logical order.

The equipment or apparatus specified should be suitable for use under the sampling conditions envisaged, and with the product in the physical state in which it is to be sampled. It shall be applied so as to maintain the initial physical state of the product. It should, wherever possible, be equipment or apparatus which is the subject of an existing International Standard and, for this purpose, the reference of the International Standard should be given. Special types of apparatus and their assembly may usefully be illustrated by a diagram or drawing which, in appropriate cases, should be in accordance with the relevant International Standards prepared by ISO/TC 10, Technical drawings.

Mention should also be made in this clause of any requirements (for example for sterilization, for the control of the atmospheric conditions, lighting, freedom from dust or draught, etc.) that may be necessary for the efficient conduct of the sampling operations, and for the protection of the product being sampled, including the samples themselves, from any deleterious effects of the environment. The setting up of the equipment and its maintenance throughout its period of use, during and immediately before and after the sampling, should also be described.

4.11 Sample containers and special packing

This clause should specify all the necessary requirements for the containers in which the samples are to be placed and kept, in relation to their type, size, and suitability for the purpose. This specification may also, therefore, refer to the materials of construction, including their physical and chemical properties, and to the method of closure. Wherever any of these requirements is already covered by an International Standard, the reference should be given. If special packing of the containers after filling is required, for example for temperature control, protection in transit, conformity with statutory regulations, etc., its specification should be given in a clause or sub-clause "Packing samples for storage and/or transport" (see 4.13.3).

When selecting the characteristics to be specified, attention should be given in particular to the following general requirements:

a) Cleanliness of the container (it may be necessary to specify special cleaning, drying, sterilizing, or other treatment, prior to filling with the sample).

b) Quality of the container, in particular:

4.12 Sampling procedures

4.12.1 Sample size

This sub-clause should specify the size and number of samples of each category required (increments, bulk samples, laboratory samples, etc.) in terms of the nature and size of the lot, and in accordance with the terms of lot acceptance if statistical interpretation is needed, and should specify the position in space or time at which the samples are to be taken.

4.12.2 Taking of increments

This sub-clause should give adequate instructions for the operations leading to the collection of all the increments required. Instructions should also be given, if necessary, for the recording of information which will specifically identify individual increments, for the filling of containers (if required at that stage) with these samples, and for the protection or disposal of the portions of the lot which have been sampled.

These operations include the checking and use of the equipment and apparatus, as required, and any other preliminary operations required prior to the actual taking of the increments (for example mixing, melting, etc., of the lot in bulk, or of the contents of individual containers to be sampled).

(standard 12.31 Preparation of bulk sample, and reduced samples

1) inertness, of all partships the dontainer, aitout the/stand sample by bringing together all the increments, followed, if resample; bd187cc5cf12/quired and if relevant to the product concerned, by blending to

2) suitability for withstanding, where appropriate, the various special treatments mentioned in a);

3) robustness of the container to withstand hazards during the selected method of transport and, if a hazardous material is in the container, compliance with the regulations in force governing its transport, for example in the case of pressure vessels used as containers for the sample, the selection of suitably pressure-tested units;

4) suitability for preserving the sample unchanged for the necessary period, for example by preventing any undesirable access of light, heat, or other radiation, and the passage of moisture or other gases or vapours into or out of the sample;

5) choice of quality of the sample container to hold samples of a given material, depending on the use to which the sample is to be put; for example, while an airtight container may be required for a sample for determining the volatile matter content of the material, a plastic film bag may be adequate for a sample of the same material intended only for particle size analyis.

c) Ullage (headspace) in the container after introducing the sample, including elimination of headspace that might cause unfavourable change in the state of the sample (for example churning of cream). sample by bringing together all the increments, followed, if required and if relevant to the product concerned, by blending to produce a homogeneous bulk sample, or by blending and reduction to produce a reduced sample, entailing, as may be required, intermediate operations (mechanical or otherwise) of blending, particle size reduction, and division. The primary blending of increments should of course be avoided when sampling has aimed at the estimation of any heterogeneity of lots or variability of characteristics as referred to in 4.7. If required, provision for the placing of the resulting sample(s) into a container should be included.

This sub-clause should also describe the method of production, and, where appropriate, placing in sample containers, of the required number of as closely as possible identical replicate laboratory samples of suitable size, from the samples obtained as described previously, the number being sufficient for reference, arbitration, contractual, statutory and test purposes.

4.12.4 Selection of samples of prepacked products

4.12.4.1 How to apply sampling plans

The statistical criteria to be used for acceptance or rejection of a lot on the basis of the sample should mainly apply to prepacked products if they have been produced under the conditions of good manufacturing practice (GMP).

Any quality assessment by statistical principles normally requires all data relevant to the product or property concerned, such as the results from plant quality control services rendered prior to sampling. By means of a systematic disclosure and interpretation of the statistical characteristics (for example process average, standard deviations, distribution of selected properties or homogeneity of lots) of these production data, a suitable sampling plan, or an adaptation to a special case, can be chosen.

Selection of a sampling plan shall take full account of any information which may be available (as previously mentioned) concerning the distribution of the property under consideration. In selecting a scheme from those listed in ISO 28591) or ISO 39512), due account shall be taken of any special characteristics of the foodstuff or product concerned. Where the schemes are not taken from ISO 2859 or ISO 3951, the subclause should include a full explanation for choosing a different scheme, as the reasons for choosing any sampling plan, including those from International Standards, should always be given.

As a consequence of the various objectives that can exist simultaneously in food sampling, different sampling plans may be needed to estimate commodity defects (attribute plans), net contents (special variable plans), compositional criteria (variable procedures with unknown standard deviation), and health-related properties (for example contaminants, by plans applicable to heterogeneous conditions).

When inspection by variables (ISO 3951) is adopted, preference should be given to plans based on the variance with respect to the most heterogeneous aspect. On advanced level of inspection or at the disposal of sufficient complementary in US.Iteh.ai) formation on the process average, the rules of switching the level of inspection may be introduced. (To give an overview of 02-108

4.12.4.2 How to draw samples

When practical, items should be taken in compliance with a random number technique. It is most desirable that any lot should be sampled only once, regardless of the type of sampling applied. Resampling is allowed only in case of spoilage or loss of the items taken.

The withdrawal of items should take place in accordance with that sampling plan which requires the largest number of items. During the sampling procedure, smaller groups of items, intended to yield data for other assessments, should be selected by denoting at random the respective items from that population, as specified in distinct sampling plans. If the mass of such an item is insufficient for multi-purpose examinations, additional items next to it should be drawn.

If possible, take items during handling of the lot (following the expedient exercise of quality control in drawing items from conveyor belts).

In general, sampling plans at the usual level are recommended. When destructive examinations are involved, due consideration should be given to reduced sample sizes (alternative plans). When large samples are drawn, consideration should also be given to mixing and reducing at the sampling site so that excess sample can be returned to the lot.

4.12.4.3 Critical and limiting defects

Sampling methods aimed at inspection for critical defects (for example to obtain evidence of the negligible occurrence of food safety risks) are often applied under heterogeneous conditions.

Critical defects form a special category. The solution generally adopted when non-destructive inspection is involved is to lay down that a sample size equal to the lot size be applied with an acceptance number of zero. If it is ever thought that any particular defect does not warrant this procedure, then serious consideration should be given to having it reclassified as a major defect (see ISO 2859).

Where the only possible inspection for critical defects is destructive (and agricultural food products often fall into this category) a sample which is 100 % of the lot cannot be used. Sample size can be calculated by connecting the percent defective (that quantity of products in which the critical or limiting defect is found once on the average) and the risk we are prepared to take of failing to find a defective (see ISO 2859).

Usually, critical or limiting properties are distributed in an anomalous way; they can only be judged on the basis of inverse J-shaped OC-curves (acceptance number 0). If the forbidden property (essentially it is an attribute) were uniformly distributed, the quality of the lot could be assessed on the basis of a single item.

4.12.4.4 Economic aspects

sampling inspection, a flowchart is presented in annex C.) sampling inspection, a flowchart is presented in annex C.) bd187ce5ef12/iso-70have96een decided, it is advisable to estimate the total personhours per lot in taking and processing the samples and the costs of the overall procedure, including the cost of the sample itself. It will help the parties concerned to balance reliability requirements in relation to economy.

NOTE - Health and safety precautions

Special instructions or warnings should be included in the above instructions 4.12.2 to 4.12.4), whenever operations involve hazards to health or safety. (See also 4.8.3.)

4.13 Packing, sealing and marking of samples and sample containers

4.13.1 Filling and sealing of sample containers

This sub-clause shall specify the method of filling, closing, securing and sealing the sample containers, including any special precautions or care to be taken in these operations. It is important that each sample should be unequivocally identifiable. Hence, to avoid any mistake, the sample or the container into which it is to be placed should be given an identification marking immediately before or after the taking of the sample.

¹⁾ ISO 2859, Sampling procedures and tables for inspection by attributes.

²⁾ ISO 3951, Sampling procedures and charts for inspection by variables for percent defective.

Any provisions for the keeping of the sample should be included in this sub-clause, for example:

a) provision of the correct ullage (headspace) in the container;

b) provision of an inert gas or other suitable gas filling the ullage in the container;

c) provision of an inert blanketing liquid around the sample;

d) chemical or physical sterilization or preservation of the contents of the sample container;

e) provision, in special cases, of vented closures to prevent excessive pressure build-up liable to constitute a hazard:

f) provision for ventilation of metabolic products of living tissue (for example, respiration of vegetable products).

4.13.2 Marking

tion);

4.13.2.1 This sub-clause should specify the information to be marked on each sample container, or on a label suitably attached to it. If the attachment of a label is not possible, the use of a unique sample number from a previously assigned record book is recommended, with a minimum of identification information, the remainder of the required information being noted on the record form. This information should include:

4.13.2.3 Any special requirements to be marked externally on the packed samples, for the information of the carriers, for example "fragile", "keep cool", "keep refrigerated ... °C", "keep dry", "store away from boilers" should be specified. Any requirements for cautionary markings, for example in the case of hazardous goods, should also be required to be conspicuously shown.

4.13.3 Packing samples for storage and/or transport

4.13.3.1 General

This sub-clause should specify the packing necessary to meet the required conditions of storage (for example refrigerated packs) and to withstand the conditions of transit or transport.

NOTE - A caution should be included that samples of incompatible materials which, if they were to come into contact, would constitute a hazard or otherwise have deleterious effects, for example cause a taint in the case of foodstuffs, should not be packed together in the same container.

4.13.3.2 Packing for dispatch and public transport

4.13.3.2.1 If the material is classified as hazardous, the following should also be specified: us.iten.ai)

a) the packing required to comply with regulations ima) the designation of the material (name, grade, specifica ISO 7002: posed by the method of transport;

https://standards.iteh.ai/catalog/standards/sist/94618be8-a28a-430a-806e-

b) the origin of the material (manufacturer, producer, pro-bi)) any warning labels which may be necessary and/or cessor, vendor, contract or order number);

the reference of the sampling report; c)

- the lot or batch number; d)
- the container number; e)
- the type of sample; f)
- the position from which the sample was taken; a)
- the place, date and time of sampling; h)
- i) the sampler's name;

any warnings, if required, as to the latest acceptable i) date for the examination of the sample, or warnings in the case of hazardous material;

k) the destination of the sample.

4.13.2.2 If required, the method of marking the samples may be specified.

NOTE - It is essential to emphasize that stick-on labels should adhere firmly and that they and their markings should retain their function even when contaminated with the sample, and after exposure to the most severe conditions of storage of the sample that can reasonably be expected. If desirable, suitable protective coatings for the labels and marks may be specified.

4.13.3.2.2 If the material is a liquid and/or is hazardous the following should also be specified:

a) the quantity and type of material which should be used to absorb and/or neutralize the sample in the event of leakage or breakage;

NOTE - The requirement should ensure that there is sufficient absorbent material under the sample container, whatever its position, to absorb all the sample.

b) if necessary, requirements for an outer liquid-tight package to afford additional protection in the event of leakage or breakage.

4.14 Precautions during storage and transport of samples

This clause should refer to the conditions of storage favourable to the keeping of the sample, and in particular, where appropriate:

a) to control of the ambient conditions to within suitable limits of lighting, temperature, relative humidity, pressure and vibration;

b) to the most suitable position of the container for storage, for example with closure up, with closure down.

In addition, in the case of the majority of products, the maximum shelf-life recommended under these preferred conditions should be stated.

The shelf-life under less favourable conditions may be usefully included for information, if known, but the clause should draw attention to the risks of deterioration of the samples on standing or in transit, as appropriate. It should indicate a maximum storage and transit time in cases where samples may undergo serious irreversible changes (for example nonpreserved samples for microbiological examination).

For samples which are to be transported, this clause should contain all instructions or recommendations which may be relevant in the selection of appropriate forms of transport, and in warning the carrier of any hazards to be avoided. Such hazards may include, for instance, problems of spillage, risk of contamination by malodorous substances, damage through shock or vibration. Where such hazards exist, this clause may also refer to the equipment and materials recommended for dealing with them, should they arise.

4.15 Sampling report

This clause should require the preparation of an adequate record of the material sampled and of the method of sampling. The a Where relevant, it should include details of the condition of the lot sampled and other information resulting from the inspection which is part of the sampler's responsibility. The following sub_002:1986

clauses refer to entries, a selection of which may, or should, be called for in the sampling report.

4.15.1 Administrative details

a) the designation and identification of the material sampled;

b) the name and/or grade of the material;

c) the specification of the material;

d) the name of the manufacturer, producer, processor and/or importer, distributor, vendor, etc., as appropriate;

e) the place of manufacture or production, and of receipt;

f) the date of manufacture or production;

g) the manufacturer's or producer's reference or code number, and any other pertinent information appearing on the label (where the inscription is permanent, this should be noted), such as limit date of utilization, list and proportions of ingredients (including additives), etc.;

h) the customer's contract or code number;

i) the total quantity covered by the contract or order;

j) the size and number of units constituting the lot or lots, together with details of markings, or reference to the documents giving this information;

k) the lot or batch numbers;

I) the reference number and date of authority to sample;

m) the place of sampling;

n) the date of sampling and, if required, the interval of time between taking the first and the last increments;

o) the time of sampling and the interval, if any, between taking and packing the samples into closed containers;

p) the names and titles of sampling personnel and witnesses;

q) the identification of the sampling method used, with indications of deviations from the prescribed standard method, if any;

r) the number of samples selected and their identification (marking, with special reference to identification of the seals used, and to batch numbers, etc.);

 s) the destination (for example name and address to which samples are sent, or a reference to the consignment note);

the time of sampling, with special reference to relative humidity and temperature, and other measurements where relevant;

t) the date of dispatch of the samples;

bd187cc5ef12/iso-7002-VJ98a statement as to whether the sample is likely to segregate or not in transit or on storage.

4.15.2 Details of unit packs or enclosures containing the lot

These entries should include any relevant observations concerning the containers, enclosure or vessel in which, at the time of sampling, the material constituting the lot was stored or held, for example their physical state and their surroundings.

4.15.3 Material sampled

The relevant entries should incorporate any pertinent observations concerning the material, for example physical state, colour, odour, uniformity, variation between units, presence of visible impurities, foreign matter or separated layers, abnormalities, whether (in the case of a frozen product) there was any evidence of thawing and re-freezing. It should moreover indicate, when necessary, the mass of the sample and whether a preservative has been added to the sample; and an indication of whether sampling was conducted aseptically.

4.15.4 Sampling method

Where the standardized sampling method has been applied, any agreed or essential deviations from the procedure specified should be stated, in the form of a description, including any