

INTERNATIONAL STANDARD

ISO 15605

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Adhesives — Sampling

Adhésifs — Échantillonnage

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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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 3.

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 International Standard may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

International Standard ISO 15605 was prepared by Technical Committee ISO/TC 61, *Plastics*, Subcommittee SC 11, *Products*.

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Introduction

Correct sampling is a skilled operation and the various procedures should be carried out with great care by samplers having the required knowledge and experience. The general instructions in this International Standard are intended to supplement this knowledge and experience and are applicable to most situations; however, some products require special sampling precautions not specified in this International Standard and therefore special vigilance is needed on the part of samplers to take note of unusual characteristics exhibited by the products. It is also essential that samplers observe special precautions in accordance with manufacturers' instructions and safety regulations.

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Adhesives — Sampling

WARNING — Persons using this International Standard should be familiar with normal laboratory practice. This standard does not purport to address all the safety problems, if any, associated with its use. It is the responsibility of the user to establish appropriate safety and health practices and to ensure compliance with any international or national regulatory conditions.

1 Scope

This International Standard specifies methods for sampling adhesives and related products, in order to obtain uniform samples of convenient size which are adequately representative of the product being sampled. The sample or samples so obtained are suitable for examination and preparation prior to testing.

The methods are applicable to products which require the addition and mixing in of catalysts or hardeners prior to their application, by sampling each component separately. The methods are not applicable, however, to sampling from a stream of adhesive (in this case the samples can be prepared in accordance with ISO 8213).

This International Standard does not apply to animal glues.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this International Standard. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO 472:1999, *Plastics — Vocabulary*.

ISO 8213:1986, *Chemical products for industrial use — Sampling techniques — Solid chemical products in the form of particles varying from powders to coarse lumps*.

ISO 15528:2000, *Paints, varnishes and raw materials for paints and varnishes — Sampling*.

3 Terms and definitions

For the purposes of this International Standard, the terms and definitions given in ISO 472, and the following apply.

3.1

batch

quantity of a particular adhesive (or component of an adhesive system) manufactured at a single location over a defined period of time and under conditions which are presumed to be uniform

3.2

delivery

quantity consisting of one or more batches or parts of batches of a particular adhesive delivered at any one time and covered by a single delivery note or shipping document

3.3

sample

any quantity of adhesive taken from and representative of a batch or delivery and intended to provide information necessary for assessing the characteristics of that material

3.4

gross sample

sample as collected from a batch or delivery

NOTE A reduced sample can be obtained by a method which reduces the quantity of the gross sample without changing its composition or physical state.

3.5

laboratory sample

final sample, ready for examination or testing

3.6

reference sample

sample, prepared at the same time as and identical with the laboratory sample, accepted by the parties to a contract and which is held for use as a laboratory sample in the event of a dispute

3.7

storage sample

retained sample

sample, prepared at the same time as and identical with the laboratory sample, intended for possible future use as a laboratory sample

3.8

test sample

sample, prepared from the laboratory sample, from which the test portions are withdrawn or taken and used for examination or testing

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NOTE The test sample can consist of two or more separate components of a multi-component adhesive system.

4 Safety

4.1 A number of hazards exist in the sampling of adhesives, particularly those containing volatile solvents. They include the flammability of such solvents, the danger of explosion (of a vapour and air mixture) and physiological effects. The precautions indicated on the safety data sheet shall be referred to before handling a product.

Many adhesives are formulated with flammable solvents and the following precautions shall be taken. Care shall be taken that all sampling equipment used for these materials is made of material that is not liable to induce sparking from static electricity. It is good practice to connect large containers to earth. All regulations regarding "controlled" or "flammable" areas in which the samples are being taken shall be strictly followed.

The danger of explosion requires the same precautions as outlined above.

Vapour from solvents can be harmful and precautions should be taken to avoid its inhalation. Contact with the skin, spillage on clothing, etc., should be avoided as far as possible during sampling. The correct treatment for any harmful material should be known beforehand and the appropriate antidote should be at hand. Some constituents can also be absorbed through the skin.

4.2 It is recommended that two persons be present when samples are being taken from large vessels such as storage tanks, road tanks or rail tanks.

4.3 Before sampling from rail tanks, it shall be ensured that no shunting operations are likely.

4.4 Except in the case of anaerobic adhesives, the containers shall be filled between 80 % and 90 % of their total capacity; this allows, on the one hand, for the high coefficient of expansion of certain liquid adhesives, and for the

need ultimately to mix the samples thoroughly to obtain representative test samples and avoids, on the other hand, too large an air space which can deleteriously affect some adhesives. Because anaerobic adhesives are adversely affected by the absence of air, sample containers for these materials shall be filled no more than 50 % full.

Moisture-reactive adhesives or hygroscopic adhesives can react during the sampling procedure or storage. After sampling, sample containers for moisture-curing adhesives or hygroscopic adhesives can be covered with dry nitrogen or another inert gas.

Light-sensitive adhesives can be kept in a lightproof container (amber glass provides only partial protection against the action of light). It is essential that they are exposed to light for the minimum time.

Samples of adhesives in film form shall be rolled up, together with their protective film, if any, and placed in a polyethylene bag which is then sealed and put in a sample container (see 6.5).

5 Types of adhesive and related product

The sampling procedures appropriate for use with adhesives and related products depend on the nature and the physical properties of the products. It is convenient to distinguish between the following types of product:

- Type A: Fluid products consisting of a single homogeneous liquid phase.
- Type B: Fluid products consisting of two liquid phases (for example, emulsions).
- Type C: Fluid products consisting of one or two liquid phases together with one or more solid phases (for example, water-based dispersions).
- Type D: Viscous products which usually consist of one or more solid phases with a small amount of a liquid phase (for example, mastics).
- Type E: Products in powder form.
- Type F: Solid products not in powder form (for example, blocks, films, tapes, sheets, granules, etc.).

Some adhesives of Types A to F undergo rapid changes in their properties when exposed to external influences. Examples of such adhesives are:

- light-sensitive adhesives;
- hygroscopic adhesives;
- moisture-reactive adhesives;
- anaerobic adhesives.

Appropriate handling precautions shall therefore be taken (see 8.2.5).

6 Sampling equipment

6.1 General

Sampling equipment is required for two separate operations:

- a) mixing the product to make it as homogeneous as possible;
- b) taking a truly representative sample.

The sampling tools in general use for sampling raw materials, which are described in ISO 15528:2000 and ISO 8213, can also be used for sampling finished products.