

DRAFT INTERNATIONAL STANDARD

ISO/DIS 15528

ISO/TC 35/SC 9

Secretariat: BSI

Voting begins on:
2019-09-09Voting terminates on:
2019-12-02

Paints, varnishes and raw materials for paints and varnishes — Sampling

Peintures, vernis et matières premières pour peintures et vernis — Échantillonnage

ICS: 87.040

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Reference number
ISO/DIS 15528:2019(E)

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Published in Switzerland

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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).

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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 35, *Paints and varnishes*, Subcommittee SC 9, *General test methods for paints and varnishes*.

This third edition cancels and replaces the second edition (ISO 15528:2013) and ISO 8130-9:1992, which have been technically revised. The main changes compared to the previous editions are as follows:

- Sampling of powder coatings from ISO 8130-9 has been included in the scope of ISO 15528;
- All information on sample deviding of coating powders originally in ISO 8130-9 has been deleted;
- The text has been editorially revised and the normative references have been updated.

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.

Introduction

Sampling depends on the product and the size of the container but not on the type of product, e.g. paint, varnish, coating powder, binder, pigment, extender or solvent. ISO 1513 specifies both the procedure for preliminary examination of a single sample as received for testing, and the procedure for preparing a test sample by blending and reduction of a series of samples representative of a consignment of paint, varnish or related product. The samples of the product to be tested have been taken in accordance with this document.

Correct sampling forms the basis for the subsequent tests and their results. The various sampling procedures need to be carried out with great care by operators having the required knowledge and experience. The general instructions in this document are intended to supplement this knowledge and experience and are applicable to most situations. However, some products might require special sampling precautions that are not given in this document; therefore, special vigilance will be necessary on the part of operators to take note of any unusual characteristics exhibited by those products. It is also essential that operators adhere to any special precautions in accordance with product specifications and national safety regulations.

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Paints, varnishes and raw materials for paints and varnishes — Sampling

1 Scope

This document specifies procedures for the sampling of paints, varnishes, including coating powders, and raw materials used in their manufacture. Such products include liquids and materials which, without undergoing chemical modification, are capable of being liquefied when heated up, and powdered, granulated and pasty materials. Samples may be taken from containers, e.g. cans, drums, tanks, tank wagons or ships' tanks, as well as from barrels, sacks, big-bags, silos or silo wagons, or from conveyor belts.

This document does not deal with the sample preparation for testing or reduction of the samples thus taken. This is dealt with in ISO 1513.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 4618, *Paints and varnishes — Terms and definitions*

ISO 6206, *Chemical products for industrial use — Sampling — Vocabulary*

3 Terms and definitions

For the purposes of this document, the following terms and definitions given in ISO 4618, ISO 6206 and the following apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <http://www.iso.org/obp>
- IEC Electropedia: available at <http://www.electropedia.org/>

3.1

batch

definite quantity of a material which was produced under uniform conditions

3.2

lot

total quantity of material which is to be sampled

Note 1 to entry: The lot can consist of a number of batches.

3.3

individual sample

that part of a product taken from a bulk material by one sampling operation

3.4

representative sample

sample which complies, within the precision of the test methods used, in all of its characteristic features with the material sampled

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3.5**average sample**

mixture of equivalent portions of individual samples

3.6**top sample**

individual sample taken at or near the surface of a material

3.7**middle sample**

individual sample taken at a level corresponding to approximately half of the total volume below the surface

3.8**bottom sample**

individual sample taken at or near the lowest level of a material

3.9**all-layer sample**

individual sample taken through the total height of the material, so that all layers are collected proportionately

3.10**composite sample**

individual sample taken from a number of different levels of a material

3.11**intermittent sample**

individual sample taken intermittently from a flow of material

3.12**continuous sample**

sample taken continuously from a flow of material

3.13**storage sample**

individual, average or continuous sample which is taken and stored for a specified period for reference purposes

4 General requirements

Sampling, the labelling and storage of samples and the preparation of the associated documentation shall be carried out by skilled personnel. After selection of a clean sampling device of a suitable type and size, sampling shall be performed observing the relevant regulations on environment, health and safety.

The sampling method used shall take into account both the physical and the chemical characteristics of the material concerned, e.g. its sensitivity to light and oxidation, its tendency to undergo surface reactions (skin formation) and its hygroscopic, physiological and toxicological characteristics.

Storage of the samples, including the storage samples, shall comply with relevant regulations on environment, health and safety, and the quality management requirements concerning labelling, traceability and periods of storage.

5 Sampling equipment

5.1 Sampling devices

5.1.1 General

The choice of sampling device depends on the type of material being sampled, the type of container, the level to which the container is filled, and the sample size required. General requirements for sampling devices include

- easy handling,
- easy cleaning (smooth surfaces),
- chemical resistance to the material being sampled.

5.1.2 Scoops

5.1.2.1 Scoop (ladle) (see also [5.1.7](#))

A scoop shall consist of a material which is not altered by the product to be tested. It is primarily used for taking top samples of solid materials.

5.1.2.2 Scoop for liquids

This instrument consists of a D-shaped metal trough divided into compartments along its length, and a shutter that moves vertically along the entire length to open and close compartments (see [Figure 1](#)). It is normally from 25 mm to 50 mm in diameter.

The instrument is inserted closed and the shutter pulled out to admit the liquid; the scoop is then closed and withdrawn.