
**Barve in laki - Določevanje prostorninskega deleža nehlapnih snovi - 2. del:
Metoda določevanja nehlapnih snovi v skladu z ISO 3251 in določevanje gostote
suhe plasti filma na premazani preskusni plošči po Arhimedovem načelu (ISO 3233
-2:2014)**

Paints and varnishes - Determination of the percentage volume of non-volatile matter -
Part 2: Method using the determination of non-volatile-matter content in accordance with
ISO 3251 and determination of dry film density on coated test panels by the Archimedes
principle (ISO 3233-2:2014)

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Beschichtungsstoffe - Bestimmung des Volumens nichtflüchtiger Anteile - Teil 2:
Verfahren mit Bestimmung des Gehaltes an nichtflüchtigen Anteilen nach ISO 3251 und
Bestimmung der Trockenfilmdichte beschichteter Probenplatten nach dem Archimedes-
Prinzip (ISO 3233-2:2014)

Peintures et vernis - Détermination du pourcentage en volume de matière non volatile -
Partie 2: Méthode utilisant la teneur en matière non volatile déterminée conformément à
l'ISO 3251 et la masse volumique du feuil sec déterminée par le principe d'Archimède
sur des panneaux d'essai revêtus (ISO 3233-2:2014)

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87.040

Barve in laki

Paints and varnishes

SIST EN ISO 3233-2:2014

en

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EUROPEAN STANDARD

EN ISO 3233-2

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Paints and varnishes - Determination of the percentage volume of non-volatile matter - Part 2: Method using the determination of non-volatile-matter content in accordance with ISO 3251 and determination of dry film density on coated test panels by the Archimedes principle (ISO 3233-2:2014)

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Beschichtungsstoffe - Bestimmung des Volumens nichtflüchtiger Anteile - Teil 2: Verfahren mit Bestimmung des Gehaltes an nichtflüchtigen Anteilen nach ISO 3251 und Bestimmung der Trockenfilmdichte beschichteter Probenplatten nach dem Archimedes-Prinzip (ISO 3233-2:2014)

iTeh STANDARD PREVIEW

This European Standard was approved by CEN on 17 April 2014.

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Foreword

This document (EN ISO 3233-2:2014) has been prepared by Technical Committee ISO/TC 35 "Paints and varnishes" in collaboration with Technical Committee CEN/TC 139 "Paints and varnishes" the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by January 2015, and conflicting national standards shall be withdrawn at the latest by January 2015.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

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Endorsement notice

The text of ISO 3233-2:2014 has been approved by CEN as EN ISO 3233-2:2014 without any modification.

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**Paints and varnishes — Determination
of the percentage volume of non-
volatile matter —**

Part 2:

**Method using the determination
of non-volatile-matter content
in accordance with ISO 3251 and
determination of dry film density on
coated test panels by the Archimedes
principle**

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*Peintures et vernis — Détermination du pourcentage en volume de
matière non volatile —*

*Partie 2: Méthode utilisant la teneur en matière non volatile
déterminée conformément à l'ISO 3251 et la masse volumique du feuil
sec déterminée par le principe d'Archimède sur des panneaux d'essai
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Reference number
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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).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: Foreword - Supplementary information

The committee responsible for this document is ISO/TC 35, *Paints and varnishes*, Subcommittee SC 9, *General test methods for paints and varnishes*.

ISO 3233 consists of the following parts, under the general title *Paints and varnishes — Determination of the percentage volume of non-volatile matter*:

- *Part 1: Method using a coated test panel to determine non-volatile matter and to determine dry film density by the Archimedes principle*
- *Part 2: Method using the determination of non-volatile-matter content in accordance with ISO 3251 and determination of dry film density on coated test panels by the Archimedes principle*
- *Part 3: Determination by calculation from the non-volatile-matter content determined in accordance with ISO 3251, the density of the coating material and the density of the solvent in the coating material*

Paints and varnishes — Determination of the percentage volume of non-volatile matter —

Part 2:

Method using the determination of non-volatile-matter content in accordance with ISO 3251 and determination of dry film density on coated test panels by the Archimedes principle

1 Scope

This part of ISO 3233 specifies a method for determining the non-volatile matter by volume (NV_v) of coating materials by determining the practical dry-film density. This method determines the volume percentage of non-volatile matter in paints, varnishes and related products by measuring the density of a dry coating for any specified temperature range and period of drying or curing.

Using the non-volatile matter by volume results obtained in accordance with this part of ISO 3233, it is possible to calculate the practical spreading rate of coating materials.

This method specifies an additional shape of plate to those described in ISO 3233-1 and is suitable for all products which can be applied by dipping.

This part of ISO 3233 is not applicable to coating materials which exceed the critical pigment volume concentration (CPVC).

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 1513, *Paints and varnishes — Examination and preparation of test samples*

ISO 2808, *Paints and varnishes — Determination of film thickness*

ISO 2811 (all parts), *Paints and varnishes — Determination of density*

ISO 3251, *Paints, varnishes and plastics — Determination of non-volatile-matter content*

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

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1

non-volatile matter

NV

residue by mass obtained by evaporation under specified conditions

[SOURCE: ISO 4618:2006, 2.161]