



NSAI
Standards

Irish Standard
I.S. EN ISO 8130-7:2019

Coating powders - Part 7: Determination of loss of mass on stoving (ISO 8130-7:2019)

I.S. EN ISO 8130-7:2019

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National Foreword

I.S. EN ISO 8130-7:2019 is the adopted Irish version of the European Document EN ISO 8130-7:2019, Coating powders - Part 7: Determination of loss of mass on stoving (ISO 8130-7:2019)

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EUROPEAN STANDARD

EN ISO 8130-7

NORME EUROPÉENNE

EUROPÄISCHE NORM

May 2019

ICS 87.040

Supersedes EN ISO 8130-7:2010

English Version

Coating powders - Part 7: Determination of loss of mass on stoving (ISO 8130-7:2019)

Poudres pour revêtement - Partie 7: Détermination de la perte de masse à la cuisson (ISO 8130-7:2019)

Pulverlacke - Teil 7: Bestimmung des Einbrennverlustes (ISO 8130-7:2019)

This European Standard was approved by CEN on 8 March 2019.

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This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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EN ISO 8130-7:2019 (E)

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European foreword

This document (EN ISO 8130-7:2019) 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of an identical text or by endorsement, at the latest by November 2019, and conflicting national standards shall be withdrawn at the latest by November 2019.

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

This document supersedes EN ISO 8130-7:2010.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

Endorsement notice

The text of ISO 8130-7:2019 has been approved by CEN as EN ISO 8130-7:2019 without any modification.

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INTERNATIONAL STANDARD

ISO
8130-7

Second edition
2019-04

Coating powders —

Part 7:

Determination of loss of mass on stoving

Poudres pour revêtement —

Partie 7: Détermination de la perte de masse à la cuisson



Reference number
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ISO 8130-7:2019(E)

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 second edition cancels and replaces the first edition (ISO 8130-7:1992), which has been technically revised.

The main changes compared to the previous edition are as follows:

- a "Terms and definitions" clause has been added;
- a "Principle" clause has been added;
- the designation of masses has been significantly changed, where m_0 is now $(m_1 - m_0)$ and m_1 is now $(m_2 - m_0)$;
- a table containing data for time, temperature and sample mass of different classes of coating powders has been added to [Annex A](#);
- the former [Annex A](#), "Required supplementary information" has been deleted;
- the text has been editorially revised and the normative references have been updated.

A list of all the parts in the ISO 8130 series can be found on the ISO website.

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.

Coating powders —

Part 7:

Determination of loss of mass on stoving

1 Scope

This document specifies a method for the determination of loss of mass on stoving of coating powders that are to be applied by electrostatic spraying or flock spraying or fluidized bed.

The method described in this document is a simple, practical test which provides sufficiently accurate results for coating powders that lose approximately 2 % (by mass) on stoving (heating). Above 2 %, accuracy decreases with an increasing loss in mass.

This method determines the amount of all volatile matter, including water.

Thermogravimetric testing as described in the ISO 11358 series can be used as a comparative method.

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 8130-14, *Coating powders — Part 14: Vocabulary*

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

3 Terms and definitions

For the purposes of this document, the specific terms and definitions given in ISO 8130-14 apply.

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

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

4 Principle

A test portion of the powder is placed on a dish and then stoved (heated). The loss of mass on stoving is calculated from weighings before and after stoving.

5 Apparatus

Ordinary laboratory apparatus, together with the following:

5.1 Flat-bottomed dish of tinfoil or aluminium, approximately 75 mm in diameter.

The dimensions of the dish are not critical, but the base shall be flat to ensure good thermal contact and to permit the test portion of the coating powder to be spread to a thin, even layer. The thickness of powder can have a significant influence on the test result.

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