



**NSAI**  
Standards

Irish Standard  
I.S. EN ISO 11125-4:2018

Preparation of steel substrates before  
application of paints and related products  
- Test methods for metallic blast-cleaning  
abrasives - Part 4: Determination of  
apparent density (ISO 11125-4:2018)

**I.S. EN ISO 11125-4:2018**

*Incorporating amendments/corrigenda/National Annexes issued since publication:*

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## National Foreword

I.S. EN ISO 11125-4:2018 is the adopted Irish version of the European Document EN ISO 11125-4:2018, Preparation of steel substrates before application of paints and related products - Test methods for metallic blast-cleaning abrasives - Part 4: Determination of apparent density (ISO 11125-4:2018)

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*In line with international standards practice the decimal point is shown as a comma (,) throughout this document.*

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**EUROPEAN STANDARD**

**EN ISO 11125-4**

**NORME EUROPÉENNE**

**EUROPÄISCHE NORM**

September 2018

ICS 25.220.10

Supersedes EN ISO 11125-4:1997

English Version

**Preparation of steel substrates before application of paints  
and related products - Test methods for metallic blast-  
cleaning abrasives - Part 4: Determination of apparent  
density (ISO 11125-4:2018)**

Préparation des subjectiles d'acier avant application de  
peintures et de produits assimilés - Méthodes d'essai  
pour abrasifs métalliques destinés à la préparation par  
projection - Partie 4: Détermination de la masse  
volumique apparente (ISO 11125-4:2018)

Vorbereitung von Stahloberflächen vor dem Auftragen  
von Beschichtungsmitteln - Prüfverfahren für  
metallische Strahlmittel - Teil 4: Bestimmung der  
scheinbaren Dichte (ISO 11125-4:2018)

This European Standard was approved by CEN on 17 August 2018.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

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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COMITÉ EUROPÉEN DE NORMALISATION  
EUROPÄISCHES KOMITEE FÜR NORMUNG

**CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels**

**EN ISO 11125-4:2018 (E)**

<b>Contents</b>	<b>Page</b>
<b>European foreword.....</b>	<b>3</b>

## **European foreword**

This document (EN ISO 11125-4:2018) 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 March 2019, and conflicting national standards shall be withdrawn at the latest by March 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 11125-4:1997.

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 11125-4:2018 has been approved by CEN as EN ISO 11125-4:2018 without any modification.

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# INTERNATIONAL STANDARD

ISO  
11125-4

Second edition  
2018-08

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## Preparation of steel substrates before application of paints and related products — Test methods for metallic blast-cleaning abrasives —

Part 4:

### Determination of apparent density

*Préparation des subjectiles d'acier avant application de peintures et  
de produits assimilés — Méthodes d'essai pour abrasifs métalliques  
destinés à la préparation par projection —*

*Partie 4: Détermination de la masse volumique apparente*



Reference number  
ISO 11125-4:2018(E)

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## Contents

	Page
<b>Foreword</b> .....	<b>iv</b>
<b>1 Scope</b> .....	<b>1</b>
<b>2 Normative references</b> .....	<b>1</b>
<b>3 Terms and definitions</b> .....	<b>1</b>
<b>4 Materials</b> .....	<b>1</b>
<b>5 Apparatus</b> .....	<b>2</b>
<b>6 Sampling</b> .....	<b>2</b>
<b>7 Procedure</b> .....	<b>2</b>
<b>8 Expression of results</b> .....	<b>2</b>
<b>9 Test report</b> .....	<b>3</b>
<b>Annex A (informative) International Standards for metallic blast-cleaning abrasives</b> .....	<b>4</b>
<b>Bibliography</b> .....	<b>5</b>

## ISO 11125-4:2018(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](http://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](http://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 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 WTO principles in the Technical Barriers to Trade (TBT) see the following URL: Foreword - Supplementary information

This document was prepared by Technical Committee ISO/TC 35, *Paints and varnishes*, Subcommittee SC 12, *Preparation of steel substrates before application of paints and related products*.

This second edition cancels and replaces the first edition (ISO 11125-4:1993), which has been technically revised.

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

— [Annex A](#) has been technically revised.

A list of all parts in the ISO 11125 series can be found on the ISO website.

# Preparation of steel substrates before application of paints and related products — Test methods for metallic blast-cleaning abrasives —

## Part 4: Determination of apparent density

### 1 Scope

This document specifies a test method for the determination of the apparent density of metallic blast-cleaning abrasives.

The purpose of the test is to establish the soundness of the metallic abrasive. Significant levels of internal shrinkage or hollow particles will reduce the apparent density.

This is one of a number of parts of ISO 11125 dealing with the sampling and testing of metallic abrasives for blast-cleaning.

The types of metallic abrasive and requirements on each are contained in the various parts of ISO 11124.

The ISO 11124 and ISO 11125 series have been drafted as a coherent set of International Standards on metallic blast-cleaning abrasives. Information on all parts of both series is given in [Annex A](#).

### 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 3696, *Water for analytical laboratory use — Specification and test methods*

### 3 Terms and definitions

For the purposes of this document, the following terms and definitions 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/>

#### 3.1

##### **apparent density**

mass of a given volume of metallic abrasive, as determined by the pycnometer method

### 4 Materials

**4.1 Distilled or deionized water**, of at least grade 3 purity, as specified in ISO 3696.

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