

Preparation of steel substrates before application of  
paints and related products - Test methods for  
non-metallic blast-cleaning abrasives - Part 4:  
Assessment of hardness by a glass slide test (ISO  
11127-4:2020)

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

See Eesti standard EVS-EN ISO 11127-4:2020 sisaldab Euroopa standardi EN ISO 11127-4:2020 ingliskeelset teksti.	This Estonian standard EVS-EN ISO 11127-4:2020 consists of the English text of the European standard EN ISO 11127-4:2020.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
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Standard on kättesaadav Eesti Standardikeskusest.	The standard is available from the Estonian Centre for Standardisation.

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English Version

Preparation of steel substrates before application of paints  
and related products - Test methods for non-metallic  
blast-cleaning abrasives - Part 4: Assessment of hardness  
by a glass slide test (ISO 11127-4:2020)

Préparation des subjectiles d'acier avant application de  
peintures et de produits assimilés - Méthodes d'essai  
pour abrasifs non métalliques destinés à la préparation  
par projection - Partie 4: Évaluation de la dureté au  
moyen d'un essai à la lame de verre (ISO 11127-  
4:2020)

Vorbereitung von Stahloberflächen vor dem Auftragen  
von Beschichtungsstoffen - Prüfverfahren für  
nichtmetallische Strahlmittel - Teil 4: Abschätzung der  
Härte durch Vergleich mit Glasscheiben (ISO 11127-  
4:2020)

This European Standard was approved by CEN on 19 October 2020.

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EUROPEAN COMMITTEE FOR STANDARDIZATION  
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EUROPÄISCHES KOMITEE FÜR NORMUNG

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## European foreword

This document (EN ISO 11127-4:2020) 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of an identical text or by endorsement, at the latest by April 2021, and conflicting national standards shall be withdrawn at the latest by April 2021.

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 11127-4:2011.

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, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

## Endorsement notice

The text of ISO 11127-4:2020 has been approved by CEN as EN ISO 11127-4:2020 without any modification.

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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](http://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](http://www.iso.org/iso/foreword.html).

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*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 139, *Paints and Varnishes*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This third edition cancels and replaces the second edition (ISO 11127-4:2011), which has been technically revised. The main changes to the previous edition are as follows:

- [Clause 3](#), Terms and definitions, has been added;
- subclause [4.2](#), [Clause 6](#) and [Appendix A](#) have been updated.

A list of all parts in the ISO 11127 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](http://www.iso.org/members.html).

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

## Part 4: Assessment of hardness by a glass slide test

### 1 Scope

This document specifies a method of assessing of whether a non-metallic blast-cleaning abrasive has a minimum hardness of 6 on Mohs' scale.

This document is a part of the ISO 11127 series dealing with the sampling and testing of non-metallic abrasives for blast-cleaning.

The types of non-metallic abrasive and requirements on each are contained in the ISO 11126 series.

The ISO 11126 and ISO 11127 series have been drafted as a coherent set of International Standards on non-metallic blast-cleaning abrasives. Information on all parts of both series is given in [Annex A](#).

NOTE The test described in this document is a pass/fail test and is not a method for the accurate determination of hardness.

### 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 11127-1, *Preparation of steel substrates before application of paints and related products — Test methods for non-metallic blast-cleaning abrasives — Part 1: Sampling*

### 3 Terms and definitions

No terms and definitions are listed in this document.

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 Apparatus

**4.1 Microscope**, having a magnification of  $\times 10$ .

**4.2 Glass microscope slides**, manufactured from soda glass with no observable scratches.

NOTE Borosilicate glass slides are unsuitable for this test