
Priprava jeklenih podlag pred nanašanjem barv in sorodnih premazov - Preskusne metode za nekovinske granulate za peskanje - 6. del: Določevanje nečistoč, topnih v vodi, z merjenjem prevodnosti (ISO/DIS 11127-6:2021)

Preparation of steel substrates before application of paints and related products - Test methods for non-metallic blast-cleaning abrasives - Part 6: Determination of water-soluble contaminants by conductivity measurement (ISO/DIS 11127-6:2021)

Vorbereitung von Stahloberflächen vor dem Auftragen von Beschichtungsstoffen - Prüfverfahren für nichtmetallische Strahlmittel - Teil 6: Bestimmung der wasserlöslichen Verunreinigungen durch Messung der Leitfähigkeit (ISO/DIS 11127 6:2021)

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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 6: Détermination des contaminants solubles dans l'eau par conductimétrie (ISO/DIS 11127-6:2021)

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

Part 6: Determination of water-soluble contaminants by conductivity measurement

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 6: Détermination des contaminants solubles dans l'eau par conductimétrie

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Contents

Page

Foreword	iv
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Reagent	1
5 Apparatus	1
6 Sampling	2
7 Procedure	2
8 Expression of results	2
9 Test report	2
Annex A (informative) International Standards for non-metallic blast-cleaning abrasives	4

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ISO/DIS 11127-6:2021(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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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 12, *Preparation of steel substrates before application of paints and related products*.

This third edition cancels and replaces the second edition (ISO 11127-6:2011), which has been editorially revised.

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

- [Clause 3](#) added.
- Graduated measuring cylinder added to list of apparatus in [Clause 5](#)
- [Clause 9](#) updated
- Annex 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.

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

Part 6: Determination of water-soluble contaminants by conductivity measurement

1 Scope

This part of ISO 11127 specifies a method for the determination of water-soluble contaminants in non-metallic blast-cleaning abrasives by conductivity measurement.

This is one of a number of parts of ISO 11127 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 ISO 11126.

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](#).

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*

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 <https://www.electropedia.org/>

4 Reagent

4.1 Conductivity water, of at least grade 2 purity as defined in ISO 3696.

5 Apparatus

Ordinary laboratory apparatus and glassware, together with the following:

ISO/DIS 11127-6:2021(E)

5.1 Conductivity-measuring bridge¹⁾.

5.2 Conductivity cell¹⁾.

5.3 Balance, capable of weighing to an accuracy of 0,1 g.

5.4 Graduated measuring cylinder, capable of measuring 100 ml to ± 0.5 ml.

6 Sampling

Take a representative sample of the product to be tested, as described in ISO 11127-1.

7 Procedure

7.1 Carry out the determination in duplicate.

7.2 Weigh a test portion of $(100 \pm 0,1)$ g of the sample into a 250 ml flask and add (100 ± 1) ml of the conductivity water (4.1). Shake for 5 min and allow to stand for 1 h. Then shake again for 5 min and allow to settle. If the liquid does not completely clear, filter it by any suitable method.

7.3 Transfer sufficient liquid to fill the conductivity cell (5.2) of the conductivity-measuring bridge (5.1). Measure the conductivity of the solution in microsiemens per centimetre at 20 °C.

The conductivity bridge shall be compensated at 20 °C or, alternatively, the conductivity shall be measured at 20 °C.

8 Expression of results

Calculate the conductivity γ_s , in microsiemens per centimetre, of the abrasive, using the equation

$$\gamma_s = \gamma_m \times K_{20}$$

where

γ_m is the conductivity, in microsiemens per centimetre, of the solution at 20 °C;

K_{20} is the cell constant of the conductivity cell at 20 °C.

If the duplicate determinations differ by more than 10 % (relative to the higher result), repeat the procedure described in [Clause 6](#).

Calculate the mean of two valid determinations and report the result to the nearest 10 $\mu\text{S}/\text{cm}$.

9 Test report

The test report shall contain at least the following information:

- a) all details necessary to identify the product tested, in accordance with the appropriate part of ISO 11126 (see [Annex A](#)), if applicable;
- b) a reference to this part of ISO 11127 (ISO 11127-6);

¹⁾ Any commercial conductivity bridge and conductivity cell with temperature compensation and a range of 10 $\mu\text{S}/\text{cm}$ to 1 000 $\mu\text{S}/\text{cm}$ are suitable.

- c) the result of the test;
- d) any deviation from the test method specified;
- e) any unusual features observed;
- f) the date of the test;
- g) the name of the person who carried out the test.

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Annex A (informative)

International Standards for non-metallic blast-cleaning abrasives

Requirements and test methods for non-metallic blast-cleaning abrasives are contained in ISO 11126 and ISO 11127, respectively.

ISO 11126 consists of the following parts under the general title:

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

- Part 1: General introduction and classification
- Part 3: Copper refinery slag
- Part 4: Coal furnace slag
- Part 5: Nickel slag
- Part 6: Iron and steel slags
- Part 7: Fused aluminium oxide
- Part 8: Olivine
- Part 9: Staurolite
- Part 10: Almandite garnet

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ISO 11127 consists of the following parts, under the general title:

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

- Part 1: Sampling
- Part 2: Determination of particle size distribution
- Part 3: Determination of apparent density
- Part 4: Assessment of hardness by a glass slide test
- Part 5: Determination of moisture
- Part 6: Determination of water-soluble contaminants by conductivity measurement
- Part 7: Determination of water-soluble chlorides
- Part 8: Field determination of water-soluble chlorides