
**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 11127-4:1993](https://standards.iteh.ai/catalog/standards/sist/388b8a3a-9b01-4acc-b822-9be4de248917/iso-11127-4-1993)

<https://standards.iteh.ai/catalog/standards/sist/388b8a3a-9b01-4acc-b822-9be4de248917/iso-11127-4-1993>

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



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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 11127-4 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*.

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: *Determination of abrasive mechanical properties*

© ISO 1993

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from the publisher.

International Organization for Standardization
Case Postale 56 • CH-1211 Genève 20 • Switzerland

Printed in Switzerland

At the time of publication of this part of ISO 11127, part 8 was in course of preparation.

Annex A of this part of ISO 11127 is for information only.

iTeh STANDARD PREVIEW
(standards.iteh.ai)

ISO 11127-4:1993

<https://standards.iteh.ai/catalog/standards/sist/388b8a3a-9b01-4acc-b822-9be4de248917/iso-11127-4-1993>

iTeh STANDARD PREVIEW
(standards.iteh.ai)

This page intentionally left blank

[ISO 11127-4:1993](#)

<https://standards.iteh.ai/catalog/standards/sist/388b8a3a-9b01-4acc-b822-9be4de248917/iso-11127-4-1993>

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 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 the various parts of 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.

This part of ISO 11127 specifies a method of assessing whether a non-metallic blast-cleaning abrasive has a minimum hardness of 6 on Mohs' scale.

NOTE 1 The test described in this part of ISO 11127 is a pass/fail test and is not a method for the accurate determination of hardness.

2 Normative reference

The following standard contains provisions which, through reference in this text, constitute provisions of this part of ISO 11127. At the time of publication, the edition indicated was valid. All standards are subject to revision, and parties to agreements based on this part of ISO 11127 are encouraged to investigate the possibility of applying the most recent edition of the standard indicated below. Members of IEC and

ISO maintain registers of currently valid International Standards.

ISO 11127-1:1993, *Preparation of steel substrates before application of paints and related products — Test methods for non-metallic blast-cleaning abrasives — Part 1: Sampling.*

3 Apparatus

3.1 Microscope, having a magnification of $\times 10$.

3.2 Glass microscope slides.

4 Sampling

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

5 Procedure

5.1 Examine a small quantity of the material under the microscope (3.1) and, if grains of different colours or diameter are present, select a few grains of each.

5.2 Place the selected grains between two glass microscope slides (3.2) and, whilst applying pressure, slowly move one slide over the other with a reciprocating motion for 10 s. Examine the glass surfaces and, if scratched, the material shall be considered as having a minimum hardness of 6 on Mohs' scale.

6 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 11127-4);
- c) the result of the test;
- d) any deviation from the test method specified;
- e) the date of the test;
- f) the name of the person who carried out the test.

iTeh STANDARD PREVIEW (standards.iteh.ai)

[ISO 11127-4:1993](https://standards.iteh.ai/catalog/standards/sist/388b8a3a-9b01-4acc-b822-9be4de248917/iso-11127-4-1993)

<https://standards.iteh.ai/catalog/standards/sist/388b8a3a-9b01-4acc-b822-9be4de248917/iso-11127-4-1993>

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 will consist 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 2: Silica sand

— Part 3: Copper refinery slag

— Part 4: Coal furnace slag

— Part 5: Nickel refinery slag

— Part 6: Iron furnace slag

— Part 7: Fused aluminium oxide

— Part 8: Olivine sand

— Part 9: Staurolite

— Part 10: Garnet

ISO 11127 will consist 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: Determination of abrasive mechanical properties

ITeH STANDARD PREVIEW
(standards.iteh.ai)

ISO 11127-4:1993

<https://standards.iteh.ai/catalog/standards/sist/388b8a5a-9b01-4acc-b822-9be4de248917/iso-11127-4-1993>

iTeh STANDARD PREVIEW (standards.iteh.ai)

[ISO 11127-4:1993](https://standards.iteh.ai/catalog/standards/sist/388b8a3a-9b01-4acc-b822-9be4de248917/iso-11127-4-1993)

<https://standards.iteh.ai/catalog/standards/sist/388b8a3a-9b01-4acc-b822-9be4de248917/iso-11127-4-1993>

UDC 667.648.1:621.7.023:621.921.2/.3:620.178.14

Descriptors: paints, varnishes, substrates, steel products, blast-cleaning, abrasives, non-metallic abrasives, tests, hardness tests, scratch hardness tests.

Price based on 3 pages
