



Preparation of steel substrates before application of paints and related products – Test methods for metallic blast-cleaning abrasives – Part 7: Determination of moisture (ISO 11125-7:1993)

The European Standard EN ISO 11125-7:1997 has the status of a Swedish Standard. The European Standard was endorsed as SS-EN ISO 11125-7 in 1997-12-30 and is now published in an English language version that supersedes the endorsement notice.

SS-EN ISO 11125 consists of several parts, describing test methods for *metallic* blast-cleaning abrasives.

Part 7, this part, specifies a method to determine the fraction of free moisture in a blast-cleaning abrasive by measuring its loss of mass, when dried. Requirements on apparatus to be used, testing procedure and calculation of results are dealt with. In Annex A are listed all specifications and test methods for metallic blast-cleaning abrasives which are presently part of or planned to be part of EN ISO 11124 and EN ISO 11125, respectively.

In the standard reference is made to:

- ISO 11125-1:1993, Preparation of steel substrates before application of paints and related products – Test methods for metallic blast-cleaning abrasives – Part 1: Sampling, which is fully adopted as Swedish standard SS-EN ISO 11125-1.

Behandling av stålytor före beläggning med målningsfärg och liknande produkter – Provningsmetoder för metalliska blästermedel – Del 7: Bestämning av fukthalt (ISO 11125-7:1993)

Europastandarden EN ISO 11125-7:1997 gäller som svensk standard. Europastandarden ikraftsattes 1997-12-30 som SS-EN ISO 11125-7 och utges nu i engelsk språkversion. Detta dokument ersätter det tidigare utgivna ikraftsättningsdokumentet.

SS-EN ISO 11125 består av flera delar, som beskriver provningsmetoder för *metalliska* blästermedel.

Del 7, denna del, anvisar en metod för bestämning av halten av fri fukt i ett blästermedel genom mätning av dess massförlust vid torkning. Kraven på erforderlig apparatur, tillvägagångssätt vid provning och resultatberäkning anges. I Annex A listas för metalliska blästermedel alla kravspecifikationer och provningsmetoder, som för närvarande ingår eller planeras ingå i EN ISO 11124 respektive EN ISO 11125.

I standarden hänvisas till:

- ISO 11125-1, som oförändrad överförs till svensk standard SS-EN ISO 11125-1 Behandling av stålytor före beläggning med målningsfärg och liknande produkter – Provningsmetoder för metalliska blästermedel – Del 1: Provtagning.

Other parts of SS-EN ISO 11125 give methods, partly for sampling, partly for determination of particle size distribution, hardness, apparent density, percentage defective particles and microstructure, and foreign matter.

The corresponding Swedish standards for *non-metallic* blast-cleaning abrasives are found in SS-EN ISO 11126 and SS-EN ISO 11127 respectively.

Swedish Standards corresponding to documents referred to in this Standard are listed in "Catalogue of Swedish Standards", issued by SIS. The Catalogue lists, with reference number and year of Swedish approval, International and European Standards approved as Swedish Standards as well as other Swedish Standards.

Övriga delar av SS-EN ISO 11125 anger dels metod för provtagning, dels metoder för bestämning av kornstorleksfördelning, hårdhet, kompaktdensitet, andel defekta korn och mikrostruktur, och halt av föroreningar.

Motsvarande svenska standarder för *icke-metalliska* blästermedel återfinns i SS-EN ISO 11126 respektive SS-EN ISO 11127.

Motsvarigheten och aktualiteten i svensk standard till de publikationer som omnämns i denna standard framgår av "Katalog över svensk standard", som ges ut av SIS. I katalogen redovisas internationella och europeiska standarder som fastställts som svenska standarder och övriga gällande svenska standarder.

EUROPEAN STANDARD
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EN ISO 11125-7

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English version

**Preparation of steel substrates before application
of paints and related products – Test methods for
metallic blast-cleaning abrasives – Part 7: Determination
of moisture (ISO 11125-7:1993)**

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 7: Détermination de l'humidité
(ISO 11125-7:1993)

Vorbereitung von Stahloberflächen vor dem
Auftragen von Beschichtungsstoffen –
Prüfverfahren für metallische Strahlmittel –
Teil 7: Bestimmung der Feuchte
(ISO 11125-7:1993)

This European Standard was approved by CEN on 1997-05-28. 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 Central Secretariat or to any CEN member.

The European Standards exist 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 Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

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Foreword

The text of the International Standard from Technical Committee ISO/TC 35 "Paints and varnishes" of the International Organization for Standardization (ISO) has been taken over as an European Standard by 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 December 1997, and conflicting national standards shall be withdrawn at the latest by December 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, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

Endorsement notice

The text of the International Standard ISO 11125-7:1993 has been approved by CEN as a European Standard without any modification.

NOTE: Normative references to International Standards are listed in annex ZA (normative).

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

Part 7: Determination of moisture

1 Scope

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.

This part of ISO 11125 specifies a test method for the determination of the level of free moisture present in metallic blast-cleaning abrasives. It is determined by measuring the mass lost on heating.

2 Normative reference

The following standard contains provisions which, through reference in this text, constitute provisions of this part of ISO 11125. 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 11125 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 11125-1:1993, *Preparation of steel substrates before application of paints and related products — Test methods for metallic blast-cleaning abrasives — Part 1: Sampling.*

3 Apparatus

Ordinary laboratory apparatus and glassware, together with the following:

3.1 Balance, capable of weighing to an accuracy of 0,01 g.

3.2 Oven, capable of being maintained at a temperature of (110 ± 5) °C.

3.3 Container or tray, capable of withstanding the heat applied and of sufficient volume to allow the test portion to be spread in a thin layer.

3.4 Desiccator, containing a desiccant such as dried silica gel impregnated with cobalt chloride.

4 Sampling

Take a representative sample of the product to be tested, as described in ISO 11125-1. Be sure to store the sample in a sealed container until required.

5 Procedure

Carry out the determination in duplicate.

5.1 Test portion

Dry the container (3.3) in the oven (3.2) at (110 ± 5) °C for 15 min and allow it to cool to room temperature in the desiccator (3.4). Weigh, using the balance (3.1), the container to the nearest 0,01 g. Weigh into the container, to the nearest 0,01 g, a test portion of approximately 100 g (m_0).

5.2 Determination

Place the container with the test portion in the oven (3.2), previously adjusted to (110 ± 5) °C, and leave for at least 1 h. Transfer the container to the desiccator and allow to cool to room temperature. Reweigh the container with the dried test portion to the nearest 0,01 g and determine the mass of the dried test portion (m_1).

6 Expression of results

Calculate the moisture content M , expressed as a percentage by mass, using the equation

$$M = \frac{m_0 - m_1}{m_0} \times 100$$

where

m_0 is the mass, in grams, of the test portion before heating;

m_1 is the mass, in grams, of the test portion after heating.

If the duplicate determinations differ by more than 0,05 % (absolute) repeat the procedure described in clause 5.

Calculate the mean of two valid determinations and report the result to the nearest 0,01 %.

7 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 11124 (see annex A), if applicable;
- b) a reference to this part of ISO 11125 (ISO 11125-7);
- 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.