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

Part 7:

Determination of moisture

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*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 —*

ISO 11125-7:2018

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Partie 7: Détermination de l'humidité



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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).

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).

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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 World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: www.iso.org/iso/foreword.html. (standards.iteh.ai)

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 11125-7:1993), 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 7: Determination of moisture

1 Scope

This document 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.

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 for 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](#).

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2 Normative references

ISO 11125-7:2018

There are no normative references in this document.

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

Ordinary laboratory apparatus and glassware, together with the following.

- 4.1 **Balance**, capable of weighing to an accuracy of 0,01 g.
- 4.2 **Oven**, capable of being maintained at a temperature of (110 ± 5) °C.
- 4.3 **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.
- 4.4 **Desiccator**, containing a desiccant such as dried silica gel impregnated with cobalt chloride.

5 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.

6 Procedure

Carry out the determination in duplicate.

6.1 Test portion

Dry the container (4.3) in the oven (4.2) at (110 ± 5) °C for 15 min and allow it to cool to room temperature in the desiccator (4.4). Weigh, using the balance (4.1), 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).

6.2 Determination

Place the container with the test portion in the oven (4.2), 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 .

7 Expression of results

Calculate the moisture content, M , expressed as a percentage by mass, using the following Formula (1):

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

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 6](#).

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

8 Test report

The test report shall contain at least the following information:

- all details necessary to identify the product tested, in accordance with the appropriate part of ISO 11124 (see [Annex A](#)), if applicable;
- a reference to this document, i.e. ISO 11125-7:2018;
- the result of the test;
- any deviation from the test method specified;
- the date of the test;
- the name of the person who carried out the test.

Annex A (informative)

International Standards for metallic blast-cleaning abrasives

Requirements and test methods for metallic blast-cleaning abrasives are contained in ISO 11124 and ISO 11125, respectively.

ISO 11124 consists of the following parts, under the general title:

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

- *Part 1: General introduction and classification;*
- *Part 2: Chilled-iron grit;*
- *Part 3: High-carbon cast-steel shot and grit;*
- *Part 4: Low-carbon cast-steel shot;*
- *Part 5: Cut Steel Wire¹⁾.*

ISO 11125 consists of the following parts, under the general title:

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

- *Part 1: Sampling,* <https://standards.iteh.ai/catalog/standards/sist/a5312a61-132d-4be7-aed3-7e19cd653eb6/iso-11125-7-2018>
- *Part 2: Determination of particle size distribution;*
- *Part 3: Determination of hardness;*
- *Part 4: Determination of apparent density;*
- *Part 5: Determination of percentage defective particles and of microstructure;*
- *Part 6: Determination of foreign matter;*
- *Part 7: Determination of moisture;*
- *Part 9: Wear testing and performance²⁾.*

1) Under preparation. (Stage at the time of publication ISO/CD 11124-5:2018.)

2) Under preparation. (Stage at the time of publication ISO/NP 11125-9:2018.)

Bibliography

- [1] ISO 11125-1, *Preparation of steel substrates before application of paints and related products — Test methods for metallic blast-cleaning abrasives — Part 1: Sampling*

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