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

Part 6:  
**Determination of foreign matter**

*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 6: Détermination des particules étrangères*

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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)).

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](http://www.iso.org/patents)).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

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](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*.

This second edition cancels and replaces the first edition (ISO 1125-6:1993), 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 6: Determination of foreign matter

### 1 Scope

This document specifies a test method for the determination of foreign matter in metallic blast-cleaning abrasives.

The purpose of the test is to establish the level to which the abrasive is contaminated by foreign matter. The level of foreign matter, e.g. oxides and residual metallurgical slag, is determined by magnetic separation.

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](#).

### 2 Normative references

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 0,1 g.

**4.2 Hand-held magnet**.

### 5 Sampling

Take a representative sample of the product to be tested, as described in ISO 11125-1.

## 6 Sample preparation

If the presence of moisture is identified or suspected, dry the sample prior to carrying out the test procedure.

## 7 Procedure

Carry out the determination in duplicate.

7.1 Weigh, using the balance (4.1), (100,0 ± 0,1) g of the sample.

7.2 Spread out a small quantity (approximately 20 g) of the sample in a thin layer on a sheet of paper.

7.3 Pass the magnet (4.2) over the surface to remove the metallic abrasive particles.

Retain the residue.

NOTE The layer needs to be sufficiently thin to ensure that no metallic particles are trapped.

7.4 Repeat the procedure described in 7.2 and 7.3 until all the sample has been separated. Clean the magnet frequently during use to avoid a build-up of metallic particles.

7.5 When all the apparently metallic material has been extracted from the sample, spread the residue in a thin layer on the paper and pass the magnet over the surface again to remove any remaining magnetic particles.

7.6 Weigh the residue and express this as percentage of foreign matter.

## 8 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 document, i.e. ISO 11125-6:2018;
- 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.

## 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 Wire<sup>1)</sup>*

ISO 11125 will consist 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*
- *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 performance<sup>2)</sup>*

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1) Under preparation. (Stage at the time of publication ISO/DIS 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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