

INTERNATIONAL
STANDARD

ISO
11125-6

First edition
1993-12-15

**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 matières étrangères



Reference number
ISO 11125-6:1993(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.

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 11125-6 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 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*
- 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 8: *Determination of abrasive mechanical properties*

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At the time of publication of this part of ISO 11125, part 8 was in course of preparation.

Annex A of this part of ISO 11125 is for information only.

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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

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 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.

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 0,1 g.

3.2 Hand-held magnet.

4 Sampling

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

5 Sample preparation

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

6 Procedure

Carry out the determination in duplicate.

6.1 Weigh, using the balance (3.1), $(100 \pm 0,1)$ g of the sample.

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

6.3 Pass the magnet (3.2) over the surface to remove the metallic abrasive particles.

Retain the residue.

NOTE 1 The layer has to be sufficiently thin to ensure that no metallic particles are trapped.

6.4 Repeat the procedure described in 6.2 and 6.3 until all the sample has been separated. Clean the magnet frequently during use to avoid a build-up of metallic particles.

6.5 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.

6.6 Weigh the residue and express this as percentage foreign matter.

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 11125-6);
- 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.

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