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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

The European Standard EN ISO 11125-6:1997 has the status of a  
British Standard

ICS 25.220.10; 87.020

**BS EN ISO  
11125-6:1997  
BS 7079-E11:  
1994**

*Incorporating  
Amendment No. 1 to  
BS 7079-E11:1994  
(which it renumbers  
as BS EN ISO  
11125-6:1997)*

## Committees responsible for this British Standard

The preparation of this British Standard was entrusted by the Surface Treatments and Coatings Standards Policy Committee (STC/-) to Technical Committee STC/21, upon which the following bodies were represented:

Association of Consulting Engineers  
 British Chemical Engineering Contractors' Association  
 British Coatings Federation Ltd.  
 British Constructional Steelwork Association Ltd.  
 British Grit Association  
 British Railways Board  
 British Steel Industry  
 Department of Transport  
 Electricity Association  
 Institute of Corrosion  
 National Federation of Painting and Decorating Contractors  
 Oil and Colour Chemists' Association  
 Paint Research Association  
 Royal Society of Chemistry

This British Standard, having been prepared under the direction of the Surface Treatments and Coatings Standards Policy Committee, was published under the authority of the Standards Board and comes into effect on 15 March 1994

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The following BSI references relate to the work on this standard:  
 Committee reference STC/21  
 Draft for comment 92/50239 DC

### Amendments issued since publication

Amd. No.	Date	Comments
9726	November 1997	Indicated by a sideline in the margin

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# National foreword

This British Standard has been prepared by Technical Committee STC/21 and is the English language version of EN ISO 11125-6:1997 *Preparation of steel substrates before application of paints and related products — Test methods for metallic blast-cleaning abrasives — Part 6: Determination of foreign matter*, published by the European Committee for Standardization (CEN). It is identical with ISO 11125-6:1993, published by the International Organization for Standardization (ISO).

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.

The other Parts of BS EN ISO 11125 are:

- *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 microstructure;*
- *Part 7: Determination of moisture.*

## Cross-reference

Publication referred to	Corresponding British Standard
EN ISO 11125-1:1997 (ISO 11125-1:1993)	BS EN ISO 11125 <i>Preparation of steel substrates before application of paints and related products — Test methods for metallic blast-cleaning abrasives</i> Part 1:1997 <i>Sampling</i>

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

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## Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, the EN ISO title page, pages 2 to 6, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

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ICS 87.020

Descriptors: Paints, varnishes, substrates, steel products, blast-cleaning, abrasives, metallic abrasives, tests, determination, contaminants

English version

Preparation of steel substrates before application of  
paints and related products — Test methods for  
metallic blast-cleaning abrasives — Part 6:  
Determination of foreign matter

(ISO 11125-6:1993)

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 6: Détermination des matières  
étrangères  
(ISO 11125-6:1993)

Vorbereitung von Stahloberflächen vor dem  
Auftragen von Beschichtungsstoffen —  
Prüfverfahren für metallische Strahlmittel —  
Teil 6: Bestimmung der Fremdbestandteile  
(ISO 11125-6:1993)

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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.

This European Standard exists 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.

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**CEN**

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

Central Secretariat: rue de Stassart 36, B-1050 Brussels

## 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 a 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 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.

NOTE Normative references to International Standards are listed in Annex ZA (normative)

## 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.

## 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 will consist 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.*

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 8: Determination of abrasive mechanical properties.*



**Annex ZA (normative)****Normative references to international publications with their relevant European publications**

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

Publication	Year	Title	EN	Year
ISO 11125-1	1993	<i>Preparation of steel substrates before application of paints and related products — Test methods for metallic blast-cleaning abrasives</i> Part 1: <i>Sampling</i>	EN ISO 11125-1	1997



## List of references

See national foreword.

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