INTERNATIONAL STANDARD

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

Part 3: Determination of hardness

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 3: Détermination de la dureté

Reference number
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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.

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 11125-3:1993), 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.

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

Part 3: Determination of hardness

1 Scope

This document specifies a test method for the determination of the Vickers hardness of metallic blast-cleaning abrasives.

This method is not recommended for the testing of particle sizes below 0,3 mm.

NOTE Accurate testing of particles below 0,3 mm (grades S040/G050) is extremely difficult.

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

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 6507-1, *Metallic materials — Vickers hardness test — Part 1: Test method*

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

4.1 Hardness tester, for application of a test force up to 10 N, and an **optical device** for magnification of the hardness-test indentations to at least ×200.

4.2 Hardness comparison plates, of hardness range similar to the product under test.

4.3 Metallurgical sample mounting material, which will harden at temperatures below 140 °C.

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