

Príprava oceľových podkladov pred nanesením náterových látok a podobných výrobkov Skúšobné metódy kovových prostriedkov na abrazívne čistenie Časť 9: Skúšanie opotrebovania a výkonu

(ISO 11125-9: 2021)

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Preparation of steel substrates before application of paints and related products - Test methods for metallic blast-cleaning abrasives - Part 9: Wear testing and performance (ISO 11125-9:2021)

Táto norma obsahuje anglickú verziu európskej normy. This standard includes the English version of the European Standard.

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European foreword

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INTERNATIONAL STANDARD

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

Part 9:

Wear testing and performance





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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.

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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.*

A list of all parts in the ISO 11125 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

This document is a part of the ISO 11125 series that specifies test methods for metallic blast-cleaning abrasives.

During blast-cleaning, metallic abrasives are subjected to repeated impacts on the substrate to be prepared. These mechanical impacts result in abrasive material fatigue until particles breakdown.

The service life of the metallic blast-cleaning abrasives is influenced by:

- the type of abrasive, in particular, its size and shape, its resilience, its hardness and its internal defects;
- the hardness and the surface conditions of the substrate to be prepared;
- the blasting machine and its settings.

The principle of an abrasive service life testing machine is based on a high number of impacts between a representative sample of the abrasive to be tested and a given target.

Several testing machines exist on the market and depending on their design, the service life obtained under laboratory conditions may or may not be comparable to field operation.

It is important that the user is aware of the different parameters and the respective adjustability. The parameters of the testing machines can vary from one machine to another and therefore can result in different test results.

In general, the effect of wear and consumption are tested. Special arrangements may be required for specific test procedures. The results can be used for comparison purposes (quality inspection) or for monitoring (quality control) of the deliveries for uniformity.

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

Part 9:

Wear testing and performance

1 Scope

This document specifies three procedures to test the service life of a blast-cleaning abrasive under laboratory conditions.

The performance of an abrasive is also measured by its ability to clean, via transmission of kinetic energy to the substrate in the blasting process. This document also specifies the procedures that can be performed in the same testing machines to help evaluate abrasive performance under laboratory conditions.

This document applies to the testing of virgin metallic blasting media in the delivery state by centrifugal blasting under laboratory conditions.

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 11124-3, Preparation of steel substrates before application of paints and related products Specifications for metallic blast-cleaning abrasives Part 3: High-carbon cast-steel shot and grit
- ISO 11124-4, Preparation of steel substrates before application of paints and related products Specifications for metallic blast-cleaning abrasives Part 4: Low-carbon cast-steel shot
- ISO 11124-5, Preparation of steel substrates before application of paints and related products Specifications for metallic blast-cleaning abrasives Part 5: Cut steel wire
- ISO 11125-1, Preparation of steel substrates before application of paints and related products Test methods for metallic blast-cleaning abrasives Part 1: Sampling
- ISO 11125-2, Preparation of steel substrates before application of paints and related products Test methods for metallic blast-cleaning abrasives Part 2: Determination of particle size distribution
- ISO 11125-3, Preparation of steel substrates before application of paints and related products Test methods for metallic blast-cleaning abrasives Part 3: Determination of hardness
- ISO 11125-4, Preparation of steel substrates before application of paints and related products Test methods for metallic blast-cleaning abrasives Part 4: Determination of apparent density
- ISO 11125-5, Preparation of steel substrates before application of paints and related products Test methods for metallic blast-cleaning abrasives Part 5: Determination of percentage defective particles and of microstructure
- ISO 11125-6, 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 11125-7, Preparation of steel substrates before application of paints and related products — Test methods for metallic blast-cleaning abrasives — Part 7: Determination of moisture

ISO 12944-4, Paints and varnishes — Corrosion protection of steel structures by protective paint systems — Part 4: Types of surface and surface preparation

ISO 565:1990, Test sieves — Metal wire cloth, perforated metal plate and electroformed sheet — Nominal sizes of openings

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