International Standard

ISO 11124-1

Third edition
2026-08

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

Part 1: General introduction and classification

Préparation des subjectiles d'acier avant application de peintures et de produits assimilés — Spécifications pour abrasifs métalliques destinés à la préparation par projection —

Partie 1: Introduction générale et classification

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Foreword

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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*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 139, *Paints and varnishes*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This third edition cancels and replaces the second edition (ISO 11124-1:2018), which has been technically revised.

The main changes are as follows:

— definition (3.6) added;

— Table 1 and Table 2 have been technically revised;

— Annex A has been removed and references added to bibliography.

A list of all parts in ISO 11124 (all parts) [1] 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 one of a number of parts of ISO 11124 (all parts) [1] specifying requirements for metallic abrasives for blast-cleaning.

Test methods for metallic blast-cleaning abrasives are given in the various parts of ISO 11125 (all parts) [2].

The requirements for non-metallic abrasives commonly used for blast-cleaning are specified in the various parts of ISO 11126 (all parts) [3]. Test methods to be used to define these requirements are contained in the various parts of ISO 11127 (all parts) [4] .

Abrasive blast-cleaning techniques are widely used to clean and prepare surfaces. During the development of a series of International Standards dealing with the preparation of steel substrates before application of paints and related products, it was decided that a need existed for a series of International Standards covering those blast-cleaning abrasives commonly used in preparation of steelwork.

The type of blast-cleaning abrasive used and its particle shape can significantly affect the surface appearance and profile form of the treated surface. ISO 8501-1 [5] provides informative photographic examples of the change in appearance imparted to steel when blast-cleaned with different abrasive types.

ISO 8503-2 [6] describes the assessment of the surface roughness of prepared surfaces using comparators. Table 1 of this document identifies the type of comparator to be used with each of the blast-cleaning abrasives considered.