International Standard

ISO 11126-10

Third edition
2025-11

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

Part 10: Almandite garnet

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

Partie 10: Grenat almandin

Reference number
ISO 11126-10:2025(en)

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Published in Switzerland

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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 document 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).

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For an explanation of 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 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*, 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 11126-10:2017), which has been technically revised.

The main changes are as follows:

— additional grades have been added and the apparent density range has been extended.

A list of all parts in the ISO 11126 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.

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

Part 10:
Almandite garnet

WARNING — Equipment, materials and abrasives used for surface preparation can be hazardous. It is the responsibility of the user to establish appropriate safety and health practices. Reference should be made to appropriate documentation on safe handling and disposal after use for those materials and abrasives that are considered to be hazardous, such as free silica or carcinogenic or toxic substances.

1 Scope

This document specifies requirements for almandite garnet abrasives, as supplied for blast-cleaning.

It specifies ranges of particle sizes and values for apparent density, Mohs hardness, moisture content, conductivity of aqueous extract and water-soluble chlorides.

The requirements specified in this document apply to abrasives supplied in the new condition only.

They do not apply to abrasives either during or after use.

Test methods for non-metallic blast-cleaning abrasives are given in the various parts of the ISO 11127 series.

NOTE Although this document has been developed specifically to meet requirements for preparation of steelwork, the properties specified are generally appropriate for use when preparing other material surfaces, or components, using blast- cleaning techniques. These techniques are described in ISO 8504-2.[1]

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 11127-1, *Preparation of steel substrates before application of paints and related products — Test methods for non-metallic blast-cleaning abrasives — Part 1: Sampling*

ISO 11127-2, *Preparation of steel substrates before application of paints and related products — Test methods for non-metallic blast-cleaning abrasives — Part 2: Determination of particle size distribution*

ISO 11127-3, *Preparation of steel substrates before application of paints and related products — Test methods for non-metallic blast-cleaning abrasives — Part 3: Determination of apparent density*

ISO 11127-4, *Preparation of steel substrates before application of paints and related products — Test methods for non-metallic blast-cleaning abrasives — Part 4: Assessment of hardness by a glass slide test*

ISO 11127-5, *Preparation of steel substrates before application of paints and related products — Test methods for non-metallic blast-cleaning abrasives — Part 5: Determination of moisture*

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ISO 11127-6, *Preparation of steel substrates before application of paints and related products — Test methods for non-metallic blast-cleaning abrasives — Part 6: Determination of water-soluble contaminants by conductivity measurement*

ISO 11127-7, *Preparation of steel substrates before application of paints and related products — Test methods for non-metallic blast-cleaning abrasives — Part 7: Determination of water-soluble chlorides*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at https://www.electropedia.org/

3.1
almandite garnet
material manufactured from the naturally occurring mineral garnet which is dried and sieved, with or without mechanical crushing, and prepared for use as a blast-cleaning abrasive

Note 1 to entry: Almandite garnet is an iron aluminium silicate with the chemical formula $Fe_3Al_2(SiO_4)_3$.

Note 2 to entry: Other forms of garnet, such as andradite garnet, which is a calcium iron silicate with the chemical formula $Ca_3Fe_2(SiO_4)_3$, exist but these garnet abrasives are not covered by this document.

4 Designation of abrasives

Almandite garnet abrasives shall be identified by “Abrasive ISO 11126” and the abbreviation N/GA indicating non-metallic, almandite garnet abrasive. This shall be followed, without spaces, by an oblique stroke and then by the symbol G to indicate the required particle shape of the abrasive, when purchased, as grit. The designation shall be completed by values denoting the particle size range, in millimetres, required (see Table 1).

EXAMPLE Abrasive ISO 11126 N/GA/G 0,18 - 0,6 denotes an abrasive of the non-metallic almandite garnet type, complying with the requirements of this document, of initial particle shape grit and particle size range 0,18 mm to 0,6 mm.

This full product designation shall be quoted on all orders.

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