INTERNATIONAL STANDARD

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

Part 8: Olivine

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 8: Olivine

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).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

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 11126-8:1993), which has been technically revised.

The main changes compared to the previous edition are as follows:

— Tables 1 and 2 have been technically revised.

A list of all parts in the ISO 11126 series can be found on the ISO website.

This corrected version of ISO 11126-8:2018 incorporates the following corrections:

— in the Foreword, the part number of the International Standard was changed from ISO 11126-7:1993 to ISO 11126-8:1993;

— the Warning before the Scope has been corrected as a part of the first sentence was missing.

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

Part 8: Olivine

WARNING — Equipment, materials and abrasives used for surface preparation can be hazardous. It is important to ensure that adequate instructions are given and that all required precautions are exercised.

1 Scope

This document specifies requirements for olivine abrasives, as supplied for blast-cleaning processes. 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 ISO 11127.

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

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*

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*

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3 Terms and definitions

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

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 https://www.electropedia.org/

3.1
olivine
material manufactured from the naturally occurring mineral olivine which is crushed by a mechanical process, dried and sieved and prepared for use as a blast-cleaning abrasive

Note 1 to entry: Olivine is a magnesium/iron silicate with the following chemical formula $MgO{\cdot}SiO_2{\cdot}Fe_2O_3$.

4 Designation of abrasives

Olivine abrasives shall be identified by "Abrasive ISO 11126" and the abbreviation N/OL indicating non-metallic, olivine 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 numbers denoting the particle size range, in millimetres, required (see Table 1).

EXAMPLE

Abrasive ISO 11126 N/OL/G 0,2-0,5

This denotes an abrasive of the non-metallic olivine type, complying with the requirements of this document, of initial particle shape grit and particle size range 0,2 mm to 0,5 mm.

This full product designation shall be quoted on all orders.

Table 1 — Particle size distribution

Particle size range[a] mm			**0,01 to 0,125**	**0,05 to 0,18**	**0,063 to 0,25**	**0,063 to 0,355**	**0,1 to 0,5**	**0,1 to 0,8**	**0,2 to 1,0**	**0,2 to 1,4**	**0,5 to 2,0**
Oversize	Sieve size	mm	0,125	0,18	0,25	0,355	0,5	0,8	1,0	1,4	2,0
	Residue % (mass fraction)	max.	10	10	10	10	10	10	10	10	10
Nominal size	Sieve size	mm	0,01	0,05	0,063	0,063	0,1	0,1	0,2	0,2	0,5
	Residue % (mass fraction)	min.	85	85	85	85	85	85	85	85	85
Undersize	Sieve size	mm	0,01	0,05	0,063	0,063	0,1	0,1	0,2	0,2	0,5
	Through-flow % (mass fraction)	max.	5	5	5	5	5	5	5	5	10

[a] By agreement between the interested parties, abrasives of different particle size ranges may be mixed together. Details of proportions of nominal size, oversize and undersize shall be specified. The maximum particle size shall not exceed 3,15 mm.

5 Sampling

Sampling procedures shall be as specified in ISO 11127-1.

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