

**Preparation of steel substrates before  
application of paints and related products -  
Specifications for non-metallic blast-  
cleaning abrasives - Part 9: Staurolite**

Preparation of steel substrates before application of  
paints and related products - Specifications for non-  
metallic blast-cleaning abrasives - Part 9: Staurolite

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN ISO 11126-9:2005 sisaldab Euroopa standardi EN ISO 11126-9:2004 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 28.12.2005 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN ISO 11126-9:2005 consists of the English text of the European standard EN ISO 11126-9:2004.</p> <p>This document is endorsed on 28.12.2005 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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<p><b>Käsitlusala:</b></p> <p>This part of ISO 11126 specifies requirements for staurolite 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 part of ISO 11126 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.</p>	<p><b>Scope:</b></p> <p>This part of ISO 11126 specifies requirements for staurolite 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 part of ISO 11126 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.</p>
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**Võtmesõnad:**

ICS 25.220.10

English version

Preparation of steel substrates before application of paints and  
related products - Specifications for non-metallic blast-cleaning  
abrasives - Part 9: Staurolite (ISO 11126-9:1999)

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 9: Staurolite (ISO 11126-9:1999)

Vorbereitung von Stahloberflächen vor dem Auftragen von  
Beschichtungsstoffen - Anforderungen an nichtmetallische  
Strahlmittel - Teil 9: Staurolith (ISO 11126-9:1999)

This European Standard was approved by CEN on 21 December 2004.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION  
COMITÉ EUROPÉEN DE NORMALISATION  
EUROPÄISCHES KOMITEE FÜR NORMUNG

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## Foreword

The text of ISO 11126-9:1999 has been prepared by Technical Committee ISO/TC 35 "Paints and varnishes" of the International Organization for Standardization (ISO) and has been taken over as EN ISO 11126-9:2004 by Technical Committee CEN/TC 139 "Paints and varnishes", the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by June 2005, and conflicting national standards shall be withdrawn at the latest by June 2005.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

### Endorsement notice

The text of ISO 11126-9:1999 has been approved by CEN as EN ISO 11126-9:2004 without any modifications.

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

**Part 9:  
Staurolite**

*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 9: Staurolite*



## 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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 3.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 11126-9 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*.

ISO 11126 consists of the following parts, under the general title *Preparation of steel substrates before application of paints and related products — Specifications for non-metallic blast-cleaning abrasives*:

- *Part 1: General introduction and classification*
- *Part 3: Copper refinery slag*
- *Part 4: Coal furnace slag*
- *Part 5: Nickel refinery slag*
- *Part 6: Iron furnace slag*
- *Part 7: Fused aluminium oxide*
- *Part 8: Olivine sand*
- *Part 9: Staurolite*
- *Part 10: Almandite garnet*

At the time of publication of this part of ISO 11126, part 10 was in the course of preparation. Part 2 has been deleted.

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

## Part 9: Staurolite

**WARNING** — Equipment, materials and abrasives used for surface preparation can be hazardous if used carelessly. Many national regulations exist for those materials and abrasives that are considered to be hazardous during or after use (waste management), such as free silica or carcinogenic or toxic substances. These regulations are therefore to be observed. It is important to ensure that adequate instructions are given and that all required precautions are exercised.

### 1 Scope

This part of ISO 11126 specifies requirements for staurolite 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 part of ISO 11126 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 1 Information on commonly referenced national standards for non-metallic abrasives is given in annex A.

NOTE 2 Although this part of ISO 11126 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 8504-2:1992. *Preparation of steel substrates before application of paints and related products — Surface preparation methods — Part 2: Abrasive blast-cleaning.*

### 2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this part of ISO 11126. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this part of ISO 11126 are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO 11127-1:1993, *Preparation of steel substrates before application of paints and related products — Test methods for non-metallic blast-cleaning abrasives — Part 1: Sampling.*

ISO 11127-2:1993, *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 11127-3:1993, *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 11127-4:1993, *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 11127-5:1993, *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 11127-6:1993, *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 11127-7:1993, *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 Term and definition

For the purposes of this part of ISO 11126, the following term and definition apply.

#### 3.1

##### **staurolite**

a material manufactured from the naturally occurring mineral staurolite which is washed, dried, sieved, magnetically separated, and prepared for use as a blast-cleaning abrasive

NOTE Staurolite is an iron/aluminium silicate with the approximate chemical formula  $\text{FeAl}_5\text{SiO}_{12}\text{OH}$ .

### 4 Designation of abrasives

Staurolite sand abrasives shall be identified by “Abrasive ISO 11126” and the abbreviation N/ST indicating non-metallic staurolite abrasive. This shall be followed, without spaces, by an oblique stroke, and then the symbol S to indicate the required particle shape of the abrasive, when purchased, as shot.

The designation shall be completed by numbers denoting the particle size range, in millimetres, required (see Table 1).

NOTE Although staurolite is designated as a shot material, the grit comparator is used when assessing the profile produced. This is due to it having an irregular grain shape.

#### EXAMPLE

##### **Abrasive ISO 11126 N/ST/S 0,2-0,6**

denotes an abrasive of the non-metallic staurolite type, complying with the requirements of this part of ISO 11126, of initial particle shape shot and particle size range 0,2 to 0,6 mm.

It is essential that this full product designation is quoted on all orders.

### 5 Sampling

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