

Liming materials - Determination of size distribution by dry and wet sieving

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EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 12948:2002 sisaldab Euroopa standardi EN 12948:2002 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 18.10.2002 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 12948:2002 consists of the English text of the European standard EN 12948:2002.</p> <p>This document is endorsed on 18.10.2002 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>Käsitlusala:</p> <p>This European Standard specifies two methods for the determination of the particle size distribution of liming materials. The dry sieving method (method A) is applicable to all liming materials except wet and paste-like products. Method A is not applicable, if blinding, caking, electrostatic charges or agglomeration occur on predrying.</p>	<p>Scope:</p> <p>This European Standard specifies two methods for the determination of the particle size distribution of liming materials. The dry sieving method (method A) is applicable to all liming materials except wet and paste-like products. Method A is not applicable, if blinding, caking, electrostatic charges or agglomeration occur on predrying.</p>
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ICS 65.080

English version

Liming materials - Determination of size distribution by dry and wet sieving

Amendements minéraux basiques - Détermination de la distribution granulométrique par tamisage à sec ou à l'état humide

Calcium-/Magnesium-Bodenverbesserungsmittel - Bestimmung der Korngrößenverteilung durch Trocken- und Nasssiebung

This European Standard was approved by CEN on 6 March 2002.

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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 Management Centre has the same status as the official versions.

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Foreword

This document EN 12948:2002 has been prepared by Technical Committee CEN/TC 260, "Fertilizers and liming materials", 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 November 2002, and conflicting national standards shall be withdrawn at the latest by November 2002.

Annex A is informative.

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

Introduction

The dry sieving of powdered material containing individual particles can be carried out quite easily. This method is simple, quick, cheap and enables the determination of the particle size of water-soluble materials. Therefore the dry sieving method should always be used first. However, the sieve apertures can become blocked by sample particles, a phenomenon known as blinding. Blinding is mainly caused by caking and the production of electrostatic charges, particularly on sieves with small apertures. Dry sieving of very wet material can also lead to blinding. These difficulties are not encountered with the wet sieving method, which is applicable to any kind of material such as powders (dry or wet), paste-like products or granules except those containing water-soluble constituents.

In order to ensure the comparability of results, all masses of size fractions are expressed as dry matter.

1 Scope

This European Standard specifies two methods for the determination of the particle size distribution of liming materials.

The dry sieving method (method A) is applicable to all liming materials except wet and paste-like products.

Method A is not applicable, if blinding, caking, electrostatic charges or agglomeration occur after predrying.

The wet sieving method (method B) is applicable to products which are susceptible to blinding, caking, electrostatic charges or agglomeration after predrying.

Method B can be used to determine the primary particle size distribution of granulated products.

Method B is not applicable to burnt lime and liming materials containing water-soluble constituents.

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text, and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

EN 1235:1995, *Solid fertilizers — Test sieving (ISO 8397:1988, modified)*.

EN 1482, *Sampling of solid fertilizers and liming materials*.

EN 12048, *Solid fertilisers and liming materials — Determination of moisture content — Gravimetric method by drying at (105 ± 2) °C (ISO 8190:1992, modified)*.

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

ISO 3310-1, *Test sieves — Technical requirements and testing — Part 1: Test sieves of metal wire cloth*.