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English Version

Liming materials - Determination of the dust content of granular liming materials before and after simulated handling conditions

Amendements minéraux basiques - Détermination de la teneur en fines des amendements minéraux basiques granulés avant et après simulation des conditions de manipulation Calcium-/Magnesium-Bodenverbesserungsmittel -Bestimmung des Staubanteils von granulatförmigen Calcium-/Magnesium-Bodenverbesserungsmitteln vor und nach simulierten Behandlungsbedingungen

This Technical Specification (CEN/TS) was approved by CEN on 31 October 2011 for provisional application.

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Foreword

This document (CEN/TS 16305:2012) has been prepared by Technical Committee CEN/TC 260 "Fertilizers and liming materials", the secretariat of which is held by DIN.

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Introduction

detention altry of this to simulate the A standard method for the determination of the dust content of granulated liming materials is required to indicate the stability and quality of the product and to simulate the dust produced during handling and storage.

A rotating device is used to simulate the abrasion caused by handling.

1 Scope

This European Standard specifies a method for the determination of the amount of dust in granulated liming materials, both before and after simulated handling conditions.

This method applies to all granulated and screened liming materials.

2 Normative references

The following referenced documents are indispensable for the application 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.

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

EN 1482-2, Fertilizers and liming materials — Sampling and sample preparation — Part 2: Sample preparation

EN 12944-3:2001, Fertilizers and liming materials — Vocabulary — Part 3: Terms relating to liming materials

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

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 12944-3:2001 apply.

NOTE For further definitions see EN 12944-1 and EN 12944-2

4 Principle

Dry sieving of a granulated liming material using a mechanical sieve. Abrasion using a Mechanical Rotating Device (MRD). Dry sieving of the product from the MRD using a mechanical sieve. Determination of the content of dust (i. e. material below 1 mm) before and after abrasion.

5 Apparatus

- **5.1** Mechanical Rotating Device (MRD), according to Figure 1, with the following specific characteristics:
- cylinder internal diameter 250 mm, external diameter 340 mm, internal thickness 120 mm, external thickness ≈ 130 mm;
- three internal paddles: 75 mm length set at 0 °, 20 mm length set at 240 ° (clockwise), 20 mm length set at 300 ° (clockwise);
- cylinder speed rotation, 19 min⁻¹.