



SLOVENSKI STANDARD

oSIST prEN 15560:2008

01-september-2008

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Fertilizers - Determination of total nitrogen in calcium cyanamide nitrate free

Düngemittel - Bestimmung von Gesamtstickstoff in nitratfreiem Kalkstickstoff

Engrais - Dosage de l'azote total dans la cyanamide calcique exempte de nitrate

Ta slovenski standard je istoveten z: prEN 15560

SIST EN 15560:2009

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ICS:

65.080

Gnojila

Fertilizers

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EUROPEAN STANDARD
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Will supersede CEN/TS 15560:2007

English Version

Fertilizers - Determination of total nitrogen in calcium cyanamide nitrate free

Engrais - Dosage de l'azote total dans la cyanamide calcique exempte de nitrate

Düngemittel - Bestimmung von Gesamtstickstoff in nitratfreiem Kalkstickstoff

This draft European Standard is submitted to CEN members for unique acceptance procedure. It has been drawn up by the Technical Committee CEN/TC 260.

If this draft becomes a European Standard, 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.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
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EUROPÄISCHES KOMITEE FÜR NORMUNG

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Foreword

This document (prEN 15560:2008) has been prepared by Technical Committee CEN/TC 260 “Fertilizers and liming materials”, the secretariat of which is held by DIN.

This document is currently submitted to the Unique Acceptance Procedure.

This document will supersede CEN/TS 15560:2007.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association.

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1 Scope

This European Standard specifies a method for the determination of total nitrogen in nitrate-free calcium cyanamide.

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

EN 12944-1:1999, *Fertilizers and liming materials and soil improvers — Vocabulary — Part 1: General terms*

EN 12944-2:1999, *Fertilizers and liming materials and soil improvers — Vocabulary — Part 2: Terms relating to fertilizers*

EN ISO 3696:1995, *Water for analytical laboratory use — Specification and test methods (ISO 3696:1987)*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 12944-1:1999 and EN 12944-2:1999 apply.

4 Principle

Digestion in sulfuric acid with the aid of a catalyst. Distillation of the ammonia from an alkaline solution, absorption in an excess of standard sulfuric acid solution and back-titration with standard sodium or potassium hydroxide solution.

5 Reagents

5.1 General

Use only reagents of recognized analytical grade and distilled or demineralized water, free from carbon dioxide and all nitrogenous compounds (grade 3 according to EN ISO 3696:1995).

5.2 Diluted sulfuric acid, mix one volume of sulfuric acid, $\rho = 1,84$ g/ml, with one volume of water.

5.3 Potassium sulphate, p.a.

5.4 Catalyst

Use 0,3 g to 0,4 g of copper(II)oxide or 0,95 g to 1,25 g of copper(II)sulfate pentahydrate for each determination.