

**Väetised. Üldlämmastiku määramine nitraadivabas
kaltsiumtsüaanamiidis**

Fertilizers - Determination of total nitrogen in calcium
cyanamide nitrate free

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 15560:2009 sisaldab Euroopa standardi EN 15560:2009 ingliskeelset teksti.

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This Estonian standard EVS-EN 15560:2009 consists of the English text of the European standard EN 15560:2009.

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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 European Standard was approved by CEN on 6 December 2008.

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Contents

Page

Foreword.....	3
1 Scope	4
2 Normative references	4
3 Terms and definitions	4
4 Principle	4
5 Reagents	4
6 Apparatus	5
7 Sampling and sample preparation	10
8 Procedure	10
9 Calculation and expression of the result	12
10 Test report	13
Bibliography	14

Foreword

This document (EN 15560:2009) 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of an identical text or by endorsement, at the latest by July 2009, and conflicting national standards shall be withdrawn at the latest by July 2009.

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This document supersedes 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.