

<b>STN P</b>	<b>Vápenaté hnojivá</b> <b>Stanovenie požiadavky na vápno v pôde</b> <b>Metóda s tlmivým roztokom octanu amónneho s</b> <b>pH 5,5</b>	<b>STN P</b> <b>CEN/TS 17338</b>  65 4906
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Liming materials - Determination of the lime requirement in soil - Ammonium acetate buffer method pH 5,5

Táto norma obsahuje anglickú verziu európskej normy.  
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 09/19

Táto predbežná STN je určená na overenie. Pripomienky zasielajte ÚNMS SR najneskôr do apríla 2021.

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TECHNICAL SPECIFICATION  
SPÉCIFICATION TECHNIQUE  
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**CEN/TS 17338**

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ICS 65.080

English Version

**Liming materials - Determination of the lime requirement  
in soil - Ammonium acetate buffer method pH 5,5**

Amendements minéraux basiques - Détermination du  
besoin en chaux d'un sol - Méthode tampon d'acétate  
d'ammonium pH 5,5

Kalkdünger - Bestimmung des Kalkbedarfs von Böden -  
Ammoniumacetat-Pufferverfahren pH 5,5

This Technical Specification (CEN/TS) was approved by CEN on 15 March 2019 for provisional application.

The period of validity of this CEN/TS is limited initially to three years. After two years the members of CEN will be requested to submit their comments, particularly on the question whether the CEN/TS can be converted into a European Standard.

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

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**CEN/TS 17338:2019 (E)**

<b>Contents</b>		<b>Page</b>
<b>European foreword</b> .....		<b>3</b>
<b>Introduction</b> .....		<b>4</b>
<b>1</b>	<b>Scope</b> .....	<b>5</b>
<b>2</b>	<b>Normative references</b> .....	<b>5</b>
<b>3</b>	<b>Terms and definitions</b> .....	<b>5</b>
<b>4</b>	<b>Principle</b> .....	<b>5</b>
<b>5</b>	<b>Reagents</b> .....	<b>5</b>
<b>6</b>	<b>Apparatus</b> .....	<b>6</b>
<b>7</b>	<b>Preparation of the test portion</b> .....	<b>6</b>
<b>8</b>	<b>Procedure and determination</b> .....	<b>6</b>
<b>9</b>	<b>Calculation and expression of the results</b> .....	<b>7</b>
<b>10</b>	<b>Test report</b> .....	<b>8</b>
<b>Annex A (informative) Regression equations to predict the maintenance of a range of pH levels at different times after liming in mineral and organic soils in Europe</b> .....		<b>9</b>
<b>A.1</b>	<b>General</b> .....	<b>9</b>
<b>A.2</b>	<b>Regression equations for mineral soils</b> .....	<b>9</b>
<b>A.3</b>	<b>Regression equations for organic soils (more than 40 % organic matter by mass)</b> .....	<b>10</b>
<b>Bibliography</b> .....		<b>12</b>

## **European foreword**

This document (CEN/TS 17338:2019) 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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**CEN/TS 17338:2019 (E)****Introduction**

pH target levels for liming of soils depend on soil types, crops to be grown and regional climatic conditions.

When pH targets have been fixed under each condition, this buffer method can be used, in addition to determine total soil acidity, to predict the amount of an effective liming material to be used to achieve this required lime status, irrespective of soil type. The buffer method will reveal the buffering capacity of any soil prior to its admixture of a liming material.

## 1 Scope

This document specifies a method for the determination of the lime requirement of acid soils to target pH levels at requested time of maintenance as determined by reaction with 0,1 mol/l ammonium acetate pH 5,5.

Due to general soil buffering systems, the method is applicable to all soils which are acid enough to dissociate hydrogen ions from the soil colloid system to depress the pH of the buffer solution.

NOTE 1 The method originates from research in Canada and Norway, see [1] and [2].

NOTE 2 Annex A gives regression equations to predict the maintenance of a range of pH levels at different times after liming in mineral and organic soils in Europe.

## 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 12944-3, *Fertilizers and liming materials - Vocabulary - Part 3: Terms relating to liming materials*

EN ISO 3696, *Water for analytical laboratory use - Specification and test methods (ISO 3696)*

EN ISO 11272, *Soil quality - Determination of dry bulk density (ISO 11272)*

**koniec náhľadu – text ďalej pokračuje v platenej verzii STN**