

BS EN 12945:2014+A1:2016



BSI Standards Publication

# Liming materials — Determination of neutralizing value — Titrimetric methods



### National foreword

This British Standard is the UK implementation of EN 12945:2014+A1:2016. It supersedes BS EN 12945:2014 which is withdrawn.

The start and finish of text introduced or altered by amendment is indicated in the text by tags. Tags indicating changes to CEN text carry the number of the CEN amendment. For example, text altered by CEN amendment A1 is indicated by A1 A1.

The UK participation in its preparation was entrusted to Technical Committee CII/37, Fertilisers and related chemicals.

A list of organizations represented on this committee can be obtained on request to its secretary.

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### Amendments/corrigenda issued since publication

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| 30 November 2016 | Implementation of CEN amendment A1:2016 |

English Version

## Liming materials - Determination of neutralizing value - Titrimetric methods

Amendements minéraux basiques - Détermination de  
la valeur neutralisante - Méthode par titrimétrie

Kalkdünger - Bestimmung des Neutralisationswertes -  
Titrimetrische Verfahren

This European Standard was approved by CEN on 8 February 2014 and includes Amendment 1 approved by CEN on 11 June 2016.

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## European foreword

This document (EN 12945:2014+A1:2016) 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of an identical text or by endorsement, at the latest by April 2017 and conflicting national standards shall be withdrawn at the latest by April 2017.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document includes Amendment 1 approved by CEN on 11 June 2016.

This document supersedes A1 EN 12945:2014 A1.

The start and finish of text introduced or altered by amendment is indicated in the text by tags A1 A1.

The following changes A1 had been made to the former edition EN 12945:2008 A1:

- a) scope modified taking into account that method A is not applicable to liming materials with more than 3 % P<sub>2</sub>O<sub>5</sub> and that method B is applicable to all liming materials;
- b) reference to EN 14984 added to the scope and the Bibliography;
- c) 9.2 amended by addition of an instruction concerning the use of correction factors;
- d) optional requirement concerning correction factors added to Clause 11 Test report;
- e) corrigendum EN 12945:2008/AC:2009 included;
- f) editorially revised.

A1 The following changes were made to the previous edition EN 12945:2014:

- g) Clause 9 modified taking into account that the neutralizing value may be expressed as CaO-equivalents or alternatively as HO--equivalents;
- h) Annex B with conversion factors between CaO and HO- added;
- i) Bibliography revised;
- j) document editorially revised. A1

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## **Introduction**

Two different procedures are described (method A and method B) because the titration to pH 7,0 is not applicable to silicate liming materials due to the precipitation of compounds at this pH value.

In method B the turning point at pH 4,8 on the titration curve is taken as the end-point of the titration. For carbonaceous liming materials the difference in the consumption of sodium hydroxide solution for back titration between the titration end-points of pH 4,8 and pH 7,0 is negligible.