



BSI Standards Publication

Carbonate and silicate liming materials — Determination of reactivity — Potentiometric titration method with hydrochloric acid

National foreword

This British Standard is the UK implementation of EN 13971:2012. It supersedes BS EN 13971:2008 which is withdrawn.

BSI, as a member of CEN, is obliged to publish EN 13971:2012 as a British Standard. However, attention is drawn to the fact that during the development of this European Standard, the UK committee voted against its approval as a European Standard.

The UK committee submitted a negative vote with respect to this standard due to concerns over reproducibility limits as described in Table 1. In two cases out of eight the reproducibility limit was 60 % and in all but three cases it exceeded 30 %. The UK committee advises that users validate their performance.

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.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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Compliance with a British Standard cannot confer immunity from legal obligations.

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Amendments/corrigenda issued since publication

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EUROPEAN STANDARD
NORME EUROPÉENNE
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EN 13971

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English Version

Carbonate and silicate liming materials - Determination of reactivity - Potentiometric titration method with hydrochloric acid

Amendements minéraux basiques carbonatés et silicatés -
Détermination de la réactivité - Méthode par titrage
potentiométrique à l'acide chlorhydrique

Carbonatische und silikatische Kalke - Bestimmung der
Reaktivität - Potentiometrisches Titrationsverfahren mit
Salzsäure

This European Standard was approved by CEN on 3 November 2012.

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Management Centre: Avenue Marnix 17, B-1000 Brussels

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Foreword

This document (EN 13971:2012) 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 June 2013, and conflicting national standards shall be withdrawn at the latest by June 2013.

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 supersedes EN 13971:2008.

The following has been added to the former edition of the European Standard:

- a) silicate liming materials added to the scope and to the title;
- b) EN 12947 and EN 13475 added to the normative references;
- c) Clause 3 reaction formula for silicates added;
- d) subclauses 7.1.2 and 7.2.2 enlarged concerning determination of silicate liming materials;
- e) subclause 8.2 and formulas (2), (3) and (4) on expression of results for silicate liming materials added;
- f) subclause 9.2 and Table 2 on the precision data for silicate liming materials added;
- g) Bibliography revised.

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Introduction

The results obtained by this method can be used to estimate the behaviour of the liming material in the soil. The results show a good correlation with the results obtained by a soil incubation method (see [1] to [5]). Regarding the precision of the method, the results are not used to declare a value, but to classify the different product groups.