



SLOVENSKI STANDARD SIST EN 1482-2:2007

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Fertilizers and liming materials - Sampling and sample preparation - Part 2: Sample preparation

iTeh STANDARD PREVIEW

Düngemittel und Calcium-/Magnesium-Bodenverbesserungsmittel - Probenahme und Probenvorbereitung - Teil 2: Probenvorbereitung

[SIST EN 1482-2:2007](http://standards.iteh.ai/SIST/EN/1482-2:2007)

Engrais et amendements minéraux basiques - Échantillonnage et préparation de l'échantillon - Partie 2: Préparation de l'échantillon

Ta slovenski standard je istoveten z: EN 1482-2:2007

ICS:

65.080

Gnojila

Fertilizers

SIST EN 1482-2:2007

en,fr,de

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English Version

Fertilizers and liming materials - Sampling and sample preparation - Part 2: Sample preparation

Engrais et amendements minéraux basiques -
Echantillonnage et préparation des échantillons - Partie 2:
Préparation des échantillons

Düngemittel und Calcium-/Magnesium-
Bodenverbesserungsmittel - Probenahme und
Probenvorbereitung - Teil 2: Probenvorbereitung

This European Standard was approved by CEN on 15 December 2006.

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. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
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Foreword

This document (EN 1482-2:2007) 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 2007, and conflicting national standards shall be withdrawn at the latest by July 2007.

Together with Part 1, this document supersedes EN 1482:1996.

This European Standard has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association to provide a means of conforming to Essential Requirements of the Regulation (EC) No 2003/2003 of the European Parliament and of the Council of 13 October 2003 relating to fertilizers.

EN 1482, Fertilizers and liming materials — Sampling and sample preparation" consists of two parts:

- Part 1: Sampling
- Part 2: Sample preparation

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

Introduction

This European Standard (EN 1482-2) covers the following aspects of sample preparation, derived from the International Standards and documents indicated but presented in a simplified and condensed form. The titles of the International Standards are given in the Bibliography.

- Reduction and preparation of samples for analysis: ISO 7410, ISO 7742, ISO 8358 and EEC 77/535 (superseded by Regulation (EC) No 2003/2003);
- Sampling reports: ISO 5306 and EEC 77/535 (superseded by Regulation (EC) No 2003/2003).

EN 1482-1 covers the sampling of fertilizers and liming materials.

Figure 1 gives a schematic diagram of the sampling and sample preparation process for solids.

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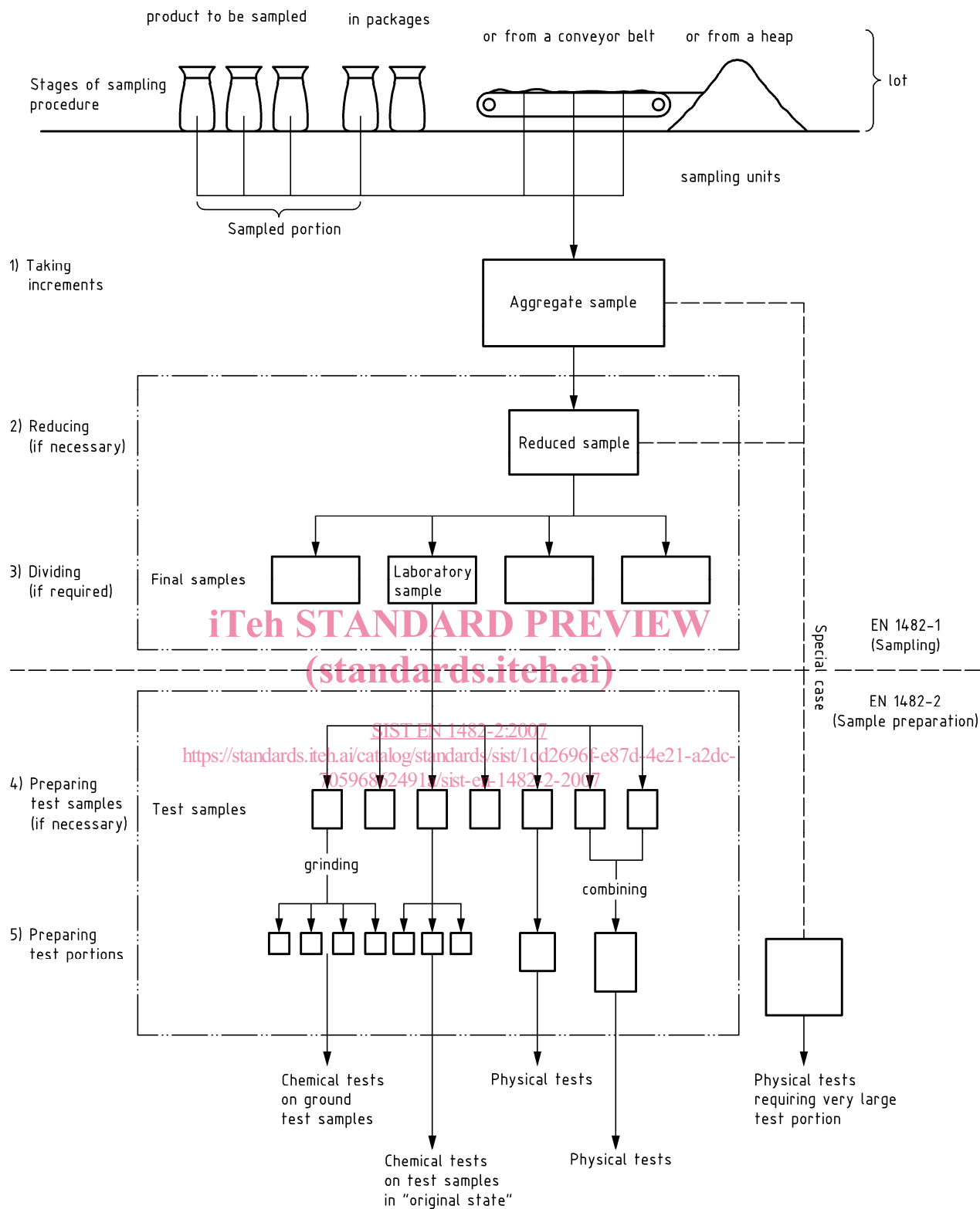


Figure 1 — Schematic diagram of sampling process for solids

1 Scope

This European Standard specifies methods for the reduction and preparation of samples of fertilizers and liming materials and sets out the requirements for sample preparation reports. It also specifies methods for the preparation of test samples and test portions from laboratory samples of fertilizer for subsequent chemical or physical analysis. It does not cover the preparation of samples for certain physical tests which require test portions of more than 2 kg. It is applicable to all fertilizers.

NOTE The term fertilizer is used throughout the body of this European Standard and should be taken to include liming materials unless otherwise indicated.

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 1482-1:2007, *Fertilizers and liming materials — Sampling and sample preparation — Part 1: Sampling*

ISO 3310-1, *Test sieves — Technical requirements and testing — Part 1: Test sieves of metal wire cloth*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1 division

process of producing a number of representative smaller portions, approximately equal in mass to each other, from a larger mass

3.2 final sample

representative part of the reduced sample or, where no intermediate reduction is required, of the aggregate sample

NOTE Often, more than one sample is prepared, at the same time, from the reduced sample (or from the aggregate sample). One or more of these final samples is used as a laboratory sample or as laboratory samples, while others may be stored for reference purposes.

3.3 laboratory sample

final sample intended for laboratory inspection or testing

3.4 reduction

process of producing a representative smaller mass of fertilizer from a larger mass, with the remainder being discarded

3.5 test portion

quantity of material taken from the test sample (or if both are the same, from the laboratory sample) and on which the test or observation is actually carried out

3.6 test sample

sample prepared from the laboratory sample and from which test portions are taken

4 Principle

Reduction and division of the laboratory sample, as necessary, to produce test samples. Preparation of test portions from the test samples by division, with or without previous grinding, or by combination, as appropriate.

5 Apparatus

5.1 General

Apparatus used in the preparation and storage of samples shall be clean and dry and made from materials which will not affect the characteristics of the fertilizer.

5.2 Rotary sample divider, conforming to the requirements specified in EN 1482-1:2007, 5.6.3, or **riffle divider** conforming to the requirements specified in EN 1482-1:2007, 5.7.2.

5.3 Sample grinder, capable of taking the whole sample at one pass and, preferably, totally enclosed. It shall have a screen, or other mechanism without a screen, which allows the ground material to pass through the machine into a collecting vessel and away from the cutters or grinding discs, to avoid over-grinding. In the case of a grinder with screens, the fineness of grind can be adjusted by the fitting of different mesh screens. Grinding shall continue until as much as possible of the fertilizer has passed through the machine.

NOTE If the grinder is of the open type, the moisture content of the fertilizer can change significantly during grinding.

Any machine used for grinding samples as required by this European Standard shall be checked for satisfactory performance. Particular points to be checked are:

- a) the fineness of grinding achieved;
- b) the temperature rise of the material being ground (see 6.3);
- c) non-contamination of the sample.

5.4 Mortar and pestle, of suitable material and size.

5.5 Test sieves, conforming to ISO 3310-1 of nominal aperture sizes 1,0 mm, 0,5 mm and 0,18 mm.

NOTE In cases where national regulations or the nature of the material require sieves of different aperture sizes, these may be used but the fact should be noted in the sample preparation report.

5.6 Sample containers, made of plastics material and/or glass, or any other material of adequate resistance and fitted with air-tight closures.

6 Procedure

6.1 General

All operations connected with this procedure shall be carried out as quickly as possible to minimize the absorption or loss of water.

6.2 Preparation of test samples in their original condition

Thoroughly mix the whole of the laboratory sample and follow one of the procedures described in EN 1482-1:2007, clause 6 to reduce (if necessary) and divide the total mass to obtain the appropriate number of representative test samples, each of about 0,5 kg in mass.