

Fertilizers and liming materials - Sampling and sample preparation - Part 2: Sample preparation (ISO 14820-2:2016)

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN ISO 14820-2:2019 sisaldab Euroopa standardi EN ISO 14820-2:2019 ingliskeelset teksti.	This Estonian standard EVS-EN ISO 14820-2:2019 consists of the English text of the European standard EN ISO 14820-2:2019.
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English Version

Fertilizers and liming materials - Sampling and sample preparation - Part 2: Sample preparation (ISO 14820-2:2016)

Engrais et amendements minéraux basiques -
Échantillonnage et préparation de l'échantillon - Partie
2: Préparation des échantillons (ISO 14820-2:2016)

Düngemittel und Kalkdünger - Probenahme und
Probenvorbereitung - Teil 2: Probenvorbereitung (ISO
14820-2:2016)

This European Standard was approved by CEN on 1 April 2019.

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CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

European foreword

The text of ISO 14820-2:2016 has been prepared by Technical Committee 134 "Fertilizers, soil conditioners and beneficial substances" of the International Organization for Standardization (ISO) and has been taken over as EN ISO 14820-2:2019 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of an identical text or by endorsement, at the latest by December 2019, and conflicting national standards shall be withdrawn at the latest by December 2019.

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

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Endorsement notice

The text of ISO 14820-2:2016 has been approved by CEN as EN ISO 14820-2:2019 without any modification.

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: [Foreword - Supplementary information](#)

ISO 14820-2:2016 was prepared by CEN/TC 260, *Fertilizers and liming materials* (as EN 1482-2:2007) and was adopted without modification other than those stipulated below by ISO/TC 134, *Fertilizers and soil conditioners*.

- The EN references (EN 1482-1 and EN 1482-2) have been changed to ISO references (ISO 14820-1 and ISO 14820-2).
- The definition in [3.2](#) have been modified slightly to align it with that in ISO 8157:2015. ISO 8157 has been added to the Bibliography.
- [Clause 5](#) has been renumbered.
- In [5.4](#) (formerly [5.5](#)) and [6.4.2](#), notes have been changed to full text.

ISO 14820 consists of the following parts, under the general title *Fertilizers and liming materials* — *Sampling and sample preparation*:

- *Part 1: Sampling*
- *Part 2: Sample preparation*

Introduction

This part of ISO 14820 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 these 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).

ISO 14820-1 covers the sampling of fertilizers and liming materials.

[Figure 1](#) gives a schematic diagram of the sampling and sample preparation process for solids.

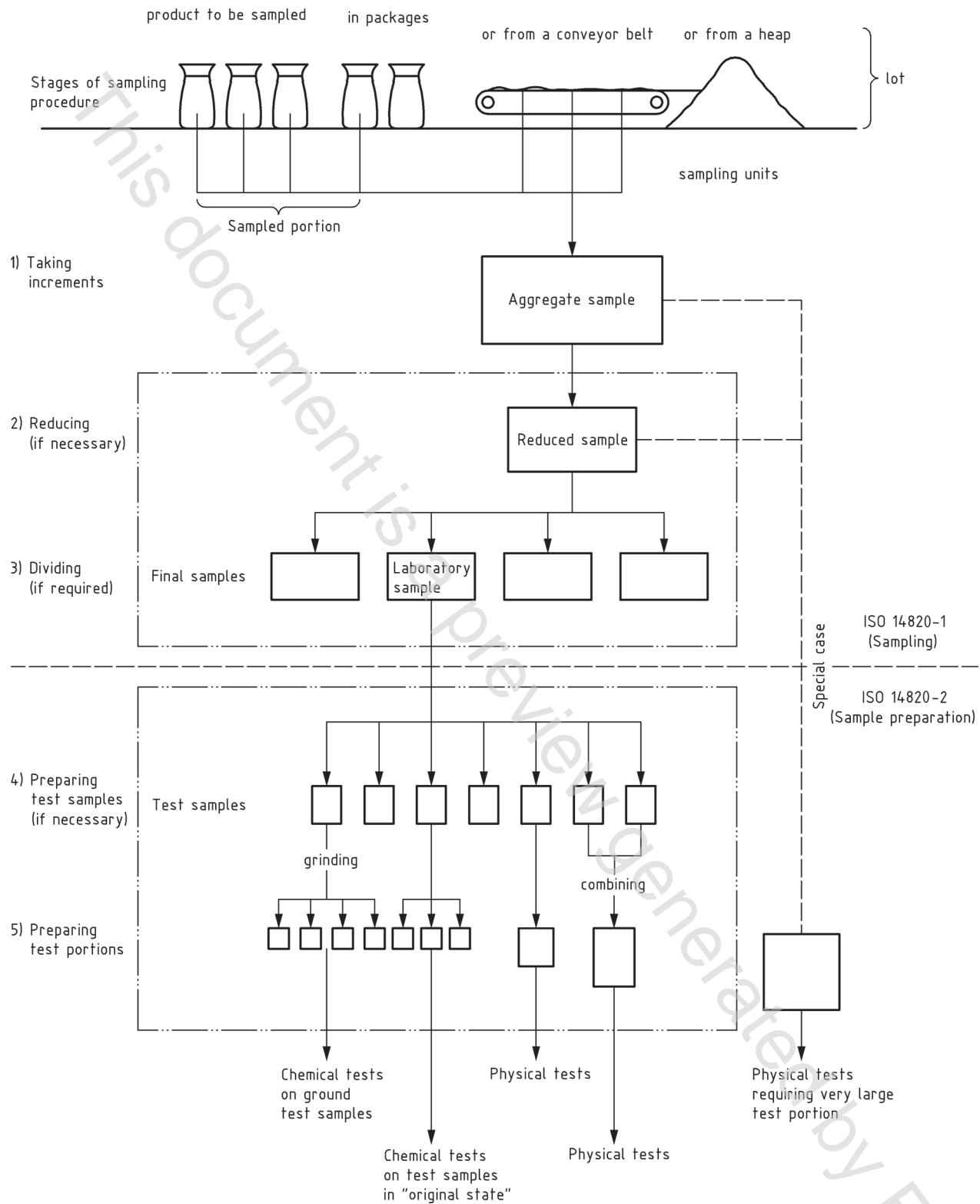


Figure 1 — Schematic diagram of sampling process for solids

Fertilizers and liming materials — Sampling and sample preparation —

Part 2: Sample preparation

1 Scope

This part of ISO 14820 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 part of ISO 14820 and is taken to include liming materials unless otherwise indicated.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

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

ISO 14820-1:2016, *Fertilizers and liming materials — Sampling and sample preparation — Part 1: Sampling*

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 1 to entry: 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 will be used as a laboratory sample or as laboratory samples, while others may be stored for reference purposes.

[SOURCE: ISO 8157:2015, 2.6.6]

3.3 laboratory sample

final sample intended for laboratory inspection or testing