



SLOVENSKI STANDARD
kSIST-TS FprCEN/TS 15958:2009
01-julij-2009

Gnojila - Ekstrakcija v vodi topnega fosforja (metoda 3.1.6)

Fertilizers - Extraction of water soluble phosphorus (Method 3.1.6)

Düngemittel - Extraktion des in Wasser löslichen Phosphors

Engrais - Extraction du phosphore soluble dans l'eau

Ta slovenski standard je istoveten z: FprCEN/TS 15958

ICS:

65.080 Gnojila Fertilizers

kSIST-TS FprCEN/TS 15958:2009 **en,fr,de**

TECHNICAL SPECIFICATION
SPÉCIFICATION TECHNIQUE
TECHNISCHE SPEZIFIKATION

FINAL DRAFT
FprCEN/TS 15958

June 2009

ICS 65.080

English Version

Fertilizers - Extraction of water soluble phosphorus (Method 3.1.6)

Engrais - Extraction du phosphore soluble dans l'eau

Düngemittel - Extraktion des in Wasser löslichen
Phosphors

This draft Technical Specification is submitted to CEN members for formal vote. It has been drawn up by the Technical Committee CEN/TC 260.

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.

Warning : This document is not a Technical Specification. It is distributed for review and comments. It is subject to change without notice and shall not be referred to as a Technical Specification.



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

Management Centre: Avenue Marnix 17, B-1000 Brussels

Contents		Page
Foreword.....		3
1	Scope	4
2	Normative references	4
3	Terms and definitions	4
4	Principle.....	4
5	Sampling.....	4
6	Reagents.....	5
7	Apparatus	5
8	Procedure	5
9	Test report	5
Bibliography		6

Foreword

This document (FprCEN/TS 15958:2009) has been prepared by Technical Committee CEN/TC 260 "Fertilizers and liming materials", the secretariat of which is held by DIN.

This document is currently submitted to the Formal Vote.

FprCEN/TS 15958:2009 (E)

1 Scope

This document specifies a method for the extraction of water soluble phosphorus.

The method is applicable to all fertilizers, including compound fertilizers, where water soluble phosphorus is to be determined.

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 1482-2, *Fertilizers and liming materials — Sampling and sample preparation — Part 2: Sample preparation*

EN 12944-1:1999, *Fertilizers and liming materials and soil improvers — Vocabulary— Part 1: General terms*

EN 12944-2:1999, *Fertilizers and liming materials and soil improvers — Vocabulary— Part 2: Terms relating to fertilizers*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 12944-1:1999 and EN 12944-2:1999 apply.

4 Principle

Extraction in water by shaking under the specified conditions.

5 Sampling

Sampling is not part of the method specified in this document. A recommended sampling method is given in EN 1482-1.

Sample preparation shall be carried out in accordance with EN 1482-2. Grinding of the laboratory sample is recommended for homogeneity reasons.

6 Reagents

6.1 **Water**, distilled or demineralized.

7 Apparatus

7.1 **500 ml graduated flask**, e. g. Stohmann.

7.2 **Rotary shaker**, 35 to 40 turns per minute.

7.3 **Dry pleated filter**, phosphate free.

8 Procedure

8.1 Test portion

Weigh, to the nearest 0,001 g, 5 g of the laboratory sample and place it in a graduated flask (7.1).

8.2 Extraction

Add to the test portion in the flask 450 ml of water, the temperature of which shall be between 20 °C and 25 °C.

Shake in the rotary shaker (7.2) for 30 min.

Then make up to the mark with water, mix thoroughly by shaking and filter through a dry pleated filter (7.3).

9 Test report

The test report shall contain at least the following information:

- a) all information necessary for the complete identification of the sample;
- b) the test method used with reference to this document;
- c) the test results obtained;
- d) date of sampling and sampling procedure (if known);
- e) date when the analysis was finished;
- f) whether the requirement of the repeatability limit has been fulfilled;
- g) all operating details not specified in this document, or regarded as optional, together with details of any incidents occurred when performing the method, which might have influenced the test result(s).

Bibliography

- [1] Regulation (EC) No 2003/2003 of the European Parliament and of the Council of 13 October 2003 relating to fertilisers, Official Journal L 304, 21/11/2003, P. 0001-0194, Annex IV, method 3.1.6
- [2] EN 1482-1, *Fertilizers and liming materials — Sampling and sample preparation — Part 1: Sampling*