

SLOVENSKI STANDARD SIST-TS CEN/TS 17787:2023

01-februar-2023

Sredstva za gnojenje - Stabilnost sredstev za kelatiranje in kompleksiranje

Fertilizing products - Stability of chelating and complexing agents

Düngeprodukte - Stabilität von Chelat- und Komplexbildnern

Fertilisants - Stabilité des agents chélatants et complexants

Ta slovenski standard je istoveten z: CEN/TS 17787:2022

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ICS:

65.080 Gnojila Fertilizers

SIST-TS CEN/TS 17787:2023 en,fr,de

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TECHNICAL SPECIFICATION
SPÉCIFICATION TECHNIQUE
TECHNISCHE SPEZIFIKATION

CEN/TS 17787

April 2022

ICS 65.080

English Version

Fertilizing products - Stability of chelating and complexing agents

Fertilisants - Stabilité des agents chélatants et complexants

Düngeprodukte - Stabilität von Chelat- und Komplexbildnern

This Technical Specification (CEN/TS) was approved by CEN on 13 March 2022 for provisional application.

The period of validity of this CEN/TS is limited initially to three years. After two years the members of CEN will be requested to submit their comments, particularly on the question whether the CEN/TS can be converted into a European Standard.

CEN members are required to announce the existence of this CEN/TS in the same way as for an EN and to make the CEN/TS available promptly at national level in an appropriate form. It is permissible to keep conflicting national standards in force (in parallel to the CEN/TS) until the final decision about the possible conversion of the CEN/TS into an EN is reached.

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

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

CEN/TS 17787:2022 (E)

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CEN/TS 17787:2022 (E)

European foreword

This document (CEN/TS 17787:2022) has been prepared by Technical Committee CEN/TC 260 "Fertilizers and liming materials" the secretariat of which is held by DIN.

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.

This document has been prepared under a Standardization Request given to CEN by the European Commission and the European Free Trade Association.

Any feedback and questions on this document should be directed to the users' national standards body. A complete listing of these bodies can be found on the CEN website.

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

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CEN/TS 17787:2022 (E)

Introduction

Regulation (EU) 2019/1009 [1] lays down the rules on the making available on the market of EU fertilizing products and the specific safety and quality requirements for the defined product function categories (PFCs).

Inorganic fertilizers have been classified into PFC 1(C), which has been divided into two groups PFC 1(C)(I) [inorganic macronutrients fertilizers] and PFC 1(C)(II) [inorganic micronutrient fertilizers].

Micronutrients are considered to be, in plant nutrition, a number of elements known to be needed in small amounts for proper plant growth and development. The most common are Iron (Fe), Manganese (Mn), Molybdenum (Mo), Copper (Cu), Zinc (Zn) and Boron (B).

If an inorganic micronutrient fertilizer contains a substance, or one of the substances in the mixture, which is intended to enhance the long term availability to plants of micronutrients in the EU fertilizing product, that substance is either a chelating agent or a complexing agent. Chelating and complexing agents should fulfil the requirements of component material category (CMC) 1 according to Regulation [EU] 2019/1009 [1].

The stability requirements for CMC 1 as specified in Regulation (EU) 2019/1009 [1] are defined in this document as well as the normative references of the test methods to be used in order to measure the compliance with the related requirement in the Regulation (EU) 2019/1009 [1].

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1 Scope

This document specifies the references to the methods for the determination of stability of chelating and complexing agents for CMC 1 as specified in the Regulation (EU) 2019/1009. The document specifies references to the methods and requirements for inorganic micronutrient fertilizers in accordance with PFC 1(C)(II) as specified in the Regulation (EU) 2019/1009 [1].

Inorganic micronutrient materials for this purpose are micronutrient chelates or complexes and mixtures of them, in powder or granular form, aqueous or suspension preparations.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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

EN 1482-2:2007, Fertilizers and liming materials — Sampling and sample preparation — Part 2: Sample preparation

EN 12944-1:1999¹, Fertilizers and liming materials — Vocabulary — Part 1: General terms

EN 12944-2:1999², Fertilizers and liming materials — Vocabulary — Part 2: Terms relating to fertilizers

CEN/TS 17782:2022, Fertilizing products — Determination of the stability of fertilizing products containing micronutrient chelates at different pHs

CEN/TS 17783:2022, Fertilizing products — Determination of the stability of fertilizing products containing micronutrient complexes SIST-TS CEN/TS 17787:2023

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3 Terms and definitions 969780e6f/sist-ts-cen-ts-17787-2023

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

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at https://www.electropedia.org/
- ISO Online browsing platform: available at https://www.iso.org/obp

4 Sampling and sample preparation

4.1 Sampling

Samples taken for quality control purposes shall be representative, as described in EN 1482-1:2007.

4.2 Sample preparation

Sample preparation for quality control purposes shall be in accordance with EN 1482-2:2007.

¹ As impacted by EN 12944-1:1999/AC:2000.

² As impacted by EN 12944-2:1999/AC:2000.