

STN P	Produkty na hnojenie Stanovenie chelátotvorných a komplexotvorných čínidiel	STN P CEN/TS 17787 65 4972
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Fertilizing products - Stability of chelating and complexing agents

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 07/22

Táto predbežná slovenská technická norma je určená na overenie. Prípadné pripomienky pošlite do apríla 2024 Úradu pre normalizáciu, metrológiu a skúšobníctvo SR.

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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.

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CEN/TS 17787:2022 (E)

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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.

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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].

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*

koniec náhľadu – text ďalej pokračuje v platenej verzii STN

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

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