
Sredstva za gnojenje - Opis fizikalne enote

Fertilizing products - Description of the physical unit

Düngeprodukte - Beschreibung der physikalischen Einheit

Fertilisants - Description de l'unité physique

Ta slovenski standard je istoveten z: prEN 17836

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ICS:

01.060

Veličine in enote

65.080

Gnojila

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Quantities and units

Fertilizers

oSIST prEN 17836:2022**en,fr,de**

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English Version

Fertilizing products - Description of the physical unit

Fertilisants - Description de l'unité physique

Düngerprodukte - Beschreibung der physikalischen
Einheit

This draft European Standard is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 260.

If this draft becomes a European Standard, 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.

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EUROPÄISCHES KOMITEE FÜR NORMUNG

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European foreword

This document (prEN 17836:2022) 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 CEN Enquiry.

This document has been prepared under a Standardization Request given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s) / Regulation(s).

For relationship with EU Directive(s) / Regulation(s), see informative Annex ZA, which is an integral part of this document.

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Introduction

In order to measure the compliance with the related requirements of the Regulation (EU) 2019/1009 [1] relevant test methods have to be defined in harmonized standards. In this document the description of the form of physical units of solid organic, organo-mineral and inorganic macronutrient fertilizers are defined.

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1 Scope

This document defines descriptions of physical units of solid organic, organo-mineral and inorganic macronutrient fertilizers required to be given on the sale or offer for sale of these types of fertilizers.

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 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 and the following apply.

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

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

3.1

physical unit

component piece of a product

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Note 1 to entry: In practice, more than one physical unit is necessary to prepare a representative sample for examination.

Note 2 to entry: Based on Regulation (EU) 2019/1009 [1].

3.2

solid form

form characterised by structural rigidity and resistance to changes of shape or volume and in which atoms are tightly bound to each other, either in a regular geometric lattice (crystalline solids) or in an irregular manner (an amorphous solid)

Note 1 to entry: Based on Regulation (EU) 2019/1009 [1], Chapter 1, Article 2(7).

3.3

organic fertilizer

fertilizer containing organic carbon and nutrients of solely biological origin

Note 1 to entry: An organic fertilizer may contain peat, leonardite and lignite, but no other material, which is fossilized or embedded in geological formations.

Note 2 to entry: Based on Regulation (EU) 2019/1009 [1], Annex I, Part II, PFC 1(A), 1.

3.4

organo-mineral fertilizer

fertilizer, which is a co-formulation of one or more inorganic fertilizers, and one or more materials containing organic carbon and nutrients of solely biological origin

Note 1 to entry: An organo-mineral fertilizer may contain peat, leonardite and lignite, but no other material, which is fossilized or embedded in geological formations.

Note 2 to entry: Based on Regulation (EU) 2019/1009 [1], Annex I, Part II, PFC 1(B), 1.

3.5

inorganic macronutrient fertilizer

fertilizer aiming at providing plants or mushrooms with one or more primary macronutrients and/or secondary macronutrients

Note 1 to entry: Primary macronutrients: nitrogen (N), phosphorus (P), potassium (K); secondary macronutrients: calcium (Ca), magnesium (Mg), sodium (Na), sulphur (S).

Note 2 to entry: Based on Regulation (EU) 2019/1009 [1], Annex I, Part II, PFC 1(C)(I), 1.

4 Description of form of physical unit

4.1 Granules

Granules are an agglomerate of particles, distinguishable to the “naked eye”, shaped roundish with various diameter, normally 1 mm to 8 mm, consisting of compact materials (examples are shown in Figure A.1).

4.2 Pellets

Pellets are an agglomerate of particles, distinguishable to the “naked eye”, with cylindrical/hemispherical shape with variable diameter from 2 mm to 8 mm and variable length from 2 mm to 15 mm, consisting of compact materials (an example is shown in Figure A.2).

4.3 Powder

Powder is a solid material where at least 90 % by mass of the product can pass through a sieve with a mesh of 1 mm (an example is shown in Figure A.3).

4.4 Prills

Prills are an agglomerate of particles, distinguishable to the “naked eye”, shaped roundish with various diameter, normally 1 mm to 4 mm, formed with air cooling of a concentrated solution of molten salts (an example is shown in Figure A.4).

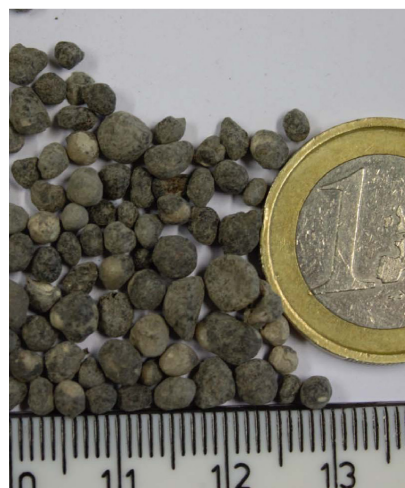
4.5 Flakes

Flakes are irregular foils, distinguishable to the “naked eye”, of shattered material with various size 1 mm to 15 mm (examples are shown in Figure A.5).

Annex A (informative) Examples



a) Granules from inorganic macronutrient fertilizers



b) Granules from organo-mineral fertilizers

Figure A.1 — Examples of granules

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a) Pellets from organic fertilizers



b) Pellets from organo-mineral fertilizers

Figure A.2 — Examples of pellets



Figure A.3 — Example of powder from inorganic macronutrient fertilizers

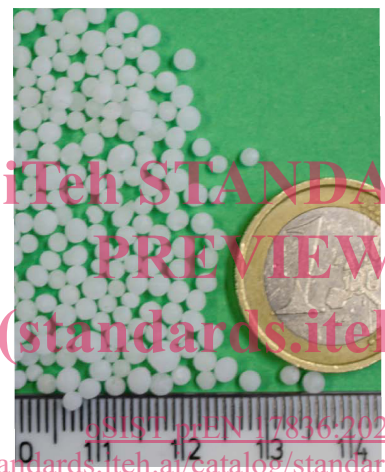


Figure A.4 — Example of prills from inorganic macronutrient fertilizers