



SLOVENSKI STANDARD

SIST-TP CR 12949:2004

01-januar-2004

Gnojila i Označbe, nazivi in specifikacije

Fertilizers - Denominations and specifications

Düngemittel - Benennungen und Anforderungen

Engrais - Dénominations et spécifications

Ta slovenski standard je istoveten z: **CR 12949:2003**

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ICS:

01.040.65	Kmetijstvo (Slovarji)	Agriculture (Vocabularies)
65.080	Gnojila	Fertilizers

SIST-TP CR 12949:2004

en

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English version

Fertilizers - Denominations and specifications

Engrais - Dénominations et spécifications

Düngemittel - Benennungen und Anforderungen

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EUROPEAN COMMITTEE FOR STANDARDIZATION
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EUROPÄISCHES KOMITEE FÜR NORMUNG

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Foreword

This CEN report is published by the European Committee for Standardization. It has been prepared by the Technical Committee CEN/TC 260 "Fertilizers and liming materials" the secretariat of which is held by DIN. This CEN Report has been written in the style of a European Standard but it is published for information only and does not have the status of a European Standard.

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1 Scope

This CEN Report gives names, descriptions, and the minimum information which may be provided for some fertilizers not included in EC regulations, but which are allowed to be traded in individual markets in the European area.

2 Normative references

This CEN Report incorporates by dated or undated reference, provisions from other publications. These references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this CEN Report only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

EN 12944 (all parts), *Fertilizers and liming materials — Vocabulary*.

3 Terms and definitions

For the purpose of this CEN report the terms and definitions given in EN 12944 (all parts) apply.

4 Product names, description and minimum information

The content of nutrient(s) is expressed by mass fraction (m/m) in percent of the fertilizer.

No coating material or additive shall be used which increases the sensitivity of ammonium nitrate containing fertilizers, or conflicts with already existing regulations related to content of organic matter and additives.

5 Inorganic nitrogenous, phosphatic and potassic fertilizers

See tables 1 to 3

Table 1 — Inorganic nitrogenous fertilizers

No.	Product name	Description	Minimum information to be provided Forms and solubilities of nutrients
1	Calcium nitrate Urea	Product containing as its essential ingredients urea (carbamide) and calcium nitrate with a total nitrogen content of at least 30 %, and with a minimum nitric nitrogen content of 6 % a maximum ammoniacal nitrogen content of 0,8 %, and a maximum biuret content of ureic N x 0,026.	Total nitrogen Nitric nitrogen Ureic nitrogen
2a	Sulfur coated urea	Coated product containing as its essential ingredient urea (carbamide) and sulfur as coating material which modifies its nutrient release characteristics with a ureic nitrogen content of at least 30 %, a maximum biuret content of ureic N x 0,026, and a minimum content of sulfur of 10 %.	Total nitrogen Ureic nitrogen Total sulfur

Table 1 (continued) — Inorganic nitrogenous fertilizers

No.	Product name	Description	Minimum information to be provided Forms and solubilities of nutrients
2b	Polymer coated urea	Coated product containing as its essential ingredient urea (carbamide), and a polymer as coating material, which modifies its nutrient release characteristics with a ureic nitrogen content of at least 30 % and a maximum biuret content of ureic N x 0,026.	Total nitrogen Ureic nitrogen
3	Coated Ammonium nitrate-ammonium sulfate	Coated product containing as its essential ingredients ammonium nitrate, ammonium sulphate and a coating material which modifies its nutrient release characteristics with a total nitrogen content of at least 24 % and a minimum nitric nitrogen content of 5 %. Elemental sulfur shall not be used as coating. Organic matter content shall not exceed 0,4% .	Total nitrogen Ammoniacal nitrogen Nitric nitrogen
4	Urea with dicyandiamide	Product containing as its essential ingredients dicyandiamide and urea (carbamide) with a total nitrogen content of at least 44 %, a minimum dicyandiamide nitrogen content of 3 % N and a maximum biuret content of ureic N x 0,026.	Total nitrogen Dicyandiamide nitrogen Ureic nitrogen
5	Ammonium sulfate urea with dicyandiamide	Product containing as its essential ingredients ammonium sulfate urea, (carbamide) and dicyandiamide with a total nitrogen content of at least 30 %, a minimum dicyandiamide nitrogen content of 2 %, a minimum ureic nitrogen content of 15 % and a maximum biuret content of ureic N x 0,026.	Total nitrogen Dicyandiamide nitrogen Ureic nitrogen Ammoniacal nitrogen
6	Calcium nitrate urea suspension	Product containing as its essential ingredients calcium nitrate and urea (carbamide) both in solution and in suspension in water with a total nitrogen content of at least 10 % and a maximum biuret content of ureic N x 0,026. At least 80 % of declared total nitrogen must be nitric nitrogen.	Total nitrogen Ureic nitrogen Nitric nitrogen nitrogen
7	Calcium nitrate-chloride urea solution	Product containing as its essential ingredients calcium nitrate, calcium chloride, urea (carbamide) and water with a total nitrogen content of at least 10 % and a maximum biuret content of ureic N x 0,026.	Total nitrogen Ureic nitrogen Nitric nitrogen <u>Optional declaration:</u> calcium oxide if it is at least 10 %
8	Calcium magnesium nitrate solution	Product containing as its essential ingredients calcium nitrate, magnesium nitrate and water with a total nitrogen content of at least 8 %, a maximum ammoniacal nitrogen content of 1 %, and a minimum magnesium content expressed as magnesium oxide of 5 %.	Total nitrogen Magnesium oxide <u>Optional declaration:</u> Nitric nitrogen Ammoniacal nitrogen Calcium oxide

Table 1 (continued) — Inorganic nitrogenous fertilizers

No.	Product name	Description	Minimum information to be provided Forms and solubilities of nutrients
9	Anhydrous ammonia	Liquified gas generally under pressure containing as its essential ingredient ammonia and with an ammoniacal nitrogen content of at least 80 %.	Ammoniacal nitrogen
10	Ammonia solution	Product containing as its essential ingredient ammonia and water with an ammoniacal nitrogen content of at least 10 %.	Ammoniacal nitrogen

Table 2 — Inorganic phosphatic fertilizers

No.	Product name	Description	Minimum information to be provided Forms and solubilities of nutrients
1	Semi-fine rock phosphate	Product obtained by grinding soft rock phosphate and containing as its essential ingredients tricalcium phosphate and calcium carbonate with a minimum phosphorus (P_2O_5) content expressed as total P_2O_5 of 25 % and at least 45 % of the declared total P_2O_5 being soluble in 2 % formic acid. Not less than 90 % of the material should be able to pass through a sieve with a mesh of 0,160 mm and not less than 99 % through a sieve with a mesh of 0,630 mm.	Total phosphorus (P_2O_5) of which P_2O_5 soluble in formic acid at 2 %

Table 3 — Inorganic potassic fertilizers

No.	Product name	Description	Minimum information to be provided Forms and solubilities of nutrients
1	Potassium carbonate	Product obtained by chemical process and containing as its essential ingredient potassium carbonate with a minimum content of potassium oxide (K_2O) soluble in water of 67 % and maximum amount of chloride expressed as chlorine (Cl) of 1 %.	Potassium oxide (K_2O) soluble in water <u>Optional declaration:</u> Maximum amount of chloride expressed as chlorine (Cl)
2	Potassium bicarbonate	Product obtained by chemical process and containing as its essential ingredient potassium bicarbonate with a minimum content of potassium oxide (K_2O) soluble in water of 46 %. The maximum water soluble K_2O shall be 49 % and maximum amount of chloride expressed as chlorine (Cl) shall be 1 %.	Potassium oxide (K_2O) soluble in water <u>Optional declaration:</u> Maximum amount of chloride expressed as chlorine (Cl)