SLOVENSKI STANDARD
SIST EN 1018:2013/kFprA1:2014

01-september-2014

Kemikalije, ki se uporabljajo za pripravo pitne vode - Kalcijev karbonat

Chemicals used for treatment of water intended for human consumption - Calcium carbonate

Produkte zur Aufbereitung von Wasser für den menschlichen Gebrauch - Calciumcarbonat

Produits chimiques utilisés pour le traitement de l'eau destinée à la consommation humaine - Carbonate de calcium

Ta slovenski standard je istoveten z: **EN 1018:2013/FprA1**

ICS:

13.060.20	Pitna voda	Drinking water
71.100.80	Kemikalije za čiščenje vode	Chemicals for purification of water

SIST EN 1018:2013/kFprA1:2014 **en,fr,de**

EUROPEAN STANDARD

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English Version

Chemicals used for treatment of water intended for human consumption - Calcium carbonate

Produits chimiques utilisés pour le traitement de l'eau destinée à la consommation humaine - Carbonate de calcium

Produkte zur Aufbereitung von Wasser für den menschlichen Gebrauch - Calciumcarbonat

This draft amendment is submitted to CEN members for unique acceptance procedure. It has been drawn up by the Technical Committee CEN/TC 164.

This draft amendment A1, if approved, will modify the European Standard EN 1018:2013. If this draft becomes an amendment, CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for inclusion of this amendment into the relevant national standard without any alteration.

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

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Foreword

This document (EN 1018:2013/FprA1:2014) has been prepared by Technical Committee CEN/TC 164 “Water supply”, the secretariat of which is held by AFNOR.

This document is currently submitted to the Unique Acceptance Procedure.

1 Modifications to Clause 5, Purity criteria

Replace the text of 5.1 with the following:

"This European Standard specifies the minimum purity requirements for calcium carbonate used for the treatment of water intended for human consumption. Limits are given for impurities commonly present in the product. Depending on the raw material and the manufacturing process other impurities may be present and, if so, this shall be notified to the user and when necessary to relevant authorities.

Users of this product should check the national regulations in order to clarify whether it is of appropriate purity for treatment of water intended for human consumption, taking into account raw water quality, required dosage, contents of other impurities and additives used in the product not stated in this European Standard.

Limits have been given for impurities and chemical parameters where these are likely to be present in significant quantities from the current production process and raw materials. If the production process or raw materials leads to significant quantities of impurities, by-products or additives being present, this shall be notified to the user.".

In 5.2, Table 1, heading row, replace "Type" *with* "Class" *to read*:

"

Table 1 — Composition of commercial product

Parameter	**Non-porous calcium carbonate**			**Porous calcium carbonate**	
	Class 1	**Class 2**	**Class 3**	**Class 1**	**Class 2**
Content of calcium carbonate ($CaCO_3$), in mass fraction in %, in dry substance	> 98	> 94	> 80	> 97	> 85
Total content of calcium carbonate ($CaCO_3$) and magnesium carbonate ($MgCO_3$) expressed as $CaCO_3$ - $MgCO_3$, in mass fraction in %, in dry substance	> 98	> 94	> 90	> 99	> 95

".

In 5.3, Table 2, heading row, replace "Level" *with* "Grade" *and* "% (m/m) max." *with* "%" *to read*:

"

Tableau 2 — Impurities

Impurity	**Non-porous calcium carbonate**			**Porous calcium carbonate**	
	Grade 1	**Grade 2**	**Grade 3**	**Grade 1**	**Grade 2**
Content of residue not soluble in hydrochloric acid, in mass fraction in %, in dry substance	≤ 2	≤ 6	≤ 12	≤ 1	≤ 5
NOTE The user may specify limits for iron or manganese, if the product is used in remineralisation process					

".

In 5.4, replace the title with "Chemical parameters".

Delete the note.

In the first paragraph, replace "the content of toxic substances" *with* "the product" to read:

"The product shall conform to the requirements specified in Table 3.".

In Table 3, replace the table note with the following:

"NOTE Other chemical parameters and indicator parameters are not relevant in calcium carbonate because the raw materials used in the manufacturing process are free of them. For parametric values of calcium carbonate on trace metal content in drinking water, see [1]."

to read:

"

Table 3 — Chemical parameters

Parameter		**Limit of product** mg/kg**, in dry substance**	
		Type A	**Type B**
Antimony (Sb)	max.	3	5
Arsenic (As)	max.	3	5
Cadmium (Cd)	max.	2	2
Chromium (Cr)	max.	10	20
Lead (Pb)	max.	10	20
Mercury (Hg)	max.	0,5	1
Nickel (Ni)	max.	10	20
Selenium (Se)	max.	3	5
NOTE Other chemical parameters and indicator parameters are not relevant in calcium carbonate because the raw materials used in the manufacturing process are free of them. For parametric values of calcium carbonate on trace metal content in drinking water, see [1].			

".

2 Modifications to Clause 7, Labelling - Transportation – Storage

In 7.4, 1st indent, add "name" *at the beginning of the sentence and add* "class, grade", *after* "trade name", *and replace* "grade" *with* "type" *to read*:

"

— name "calcium carbonate", trade name, class, grade and type;".

Replace the last indent with:

"

— the statement "this product conforms to EN 1018, class ….. grade…... type .....".

3 Modifications to Annex A

In A.2.2, 2nd paragraph, 1st sentence, replace "and" *with* "or" *and add the following sentence* "For the determination of the particle size range, see [3]" *to read*:

"If the particle size range is quoted, the content of oversize or undersize should not exceed 10 % (*m/m*). For the determination of the particle size range, see [3].".

4 Modification to Annex B

In B.3, add "surface area" *after* "BET" *(twice) to read*:

"Non-porous calcium carbonates have a BET surface area of less than 1 m^2/g, porous calcium carbonates have a BET surface area of equal to or higher than 1 m^2/g.".