

Chemicals used for treatment of water intended for human consumption - Aluminium iron(III) chloride (monomeric) and aluminium iron(III) chloride hydroxide (monomeric)

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 935:2001 sisaldab Euroopa standardi EN 935:2001 ingliskeelset teksti.

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Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kättesaadavaks tegemise kuupäev on .

Standard on kättesaadav Eesti standardiorganisatsioonist.

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English version

Chemicals used for treatment of water intended for human consumption - Aluminium iron(III) chloride (monomeric) and aluminium iron(III) chloride hydroxide (monomeric)

Produits chimiques utilisés pour le traitement de l'eau destinée à la consommation humaine - Chlorure et hydroxychlorure d'aluminium et de fer(III) (monomères)

Produkte zur Aufbereitung von Wasser für den menschlichen Gebrauch - Aluminium-Eisen(III) Chlorid (Monomer) und Aluminium-Eisen(III) Hydroxydchlorid (Monomer)

This European Standard was approved by CEN on 29 September 2001.

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This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Management Centre has the same status as the official versions.

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Contents

	page
Foreword	3
Introduction	4
1 Scope	5
2 Normative references	5
3 Description	5
3.1 Identification	5
3.2 Commercial form	6
3.3 Physical properties	6
3.4 Chemical properties	7
4 Purity criteria	7
4.1 General	7
4.2 Composition of commercial product	8
4.3 Impurities and main by-products	8
4.4 Toxic substances	8
5 Test methods	8
5.1 Sampling	8
5.2 Analyses	9
6 Labelling - Transportation - Storage	9
6.1 Means of delivery	9
6.2 Risk and safety labelling according to the EU Directives	10
6.3 Transportation regulations and labelling	10
6.4 Marking	11
6.5 Storage	11
Annex A (informative) General information on aluminium iron(III) chloride (monomeric) and aluminium iron(III) chloride hydroxide (monomeric)	12
A.1 Origin	12
A.2 Use	12
Annex B (normative) General rules relating to safety	14
B.1 Rules for safe handling and use	14
B.2 Emergency procedures	14
Bibliography	15

Foreword

This European Standard has been prepared by Technical Committee CEN/TC 164 "Water supply", the secretariat of which is held by AFNOR.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by April 2002, and conflicting national standards shall be withdrawn at the latest by April 2002.

This European Standard refers to the EU Directive 80/778/EEC (see [1]) of 15 July 1980, however it will be revised in future in order to take account of the new EU Directive 98/83/EEC (see [3]).

Annex A is informative.

Annex B is normative.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

Introduction

In respect of potential adverse effects on the quality of water intended for human consumption, caused by the product covered by this standard :

- a) this standard provides no information as to whether the product may be used without restriction in any of the Member States of the EU or EFTA ;
- b) it should be noted that, while awaiting the adoption of verifiable European criteria, existing national regulations concerning the use and/or the characteristics of this product remain in force.

1 Scope

This European Standard is applicable to aluminium iron(III) chloride (monomeric) and aluminium iron(III) chloride hydroxide (monomeric) used for treatment of water intended for human consumption. It describes the characteristics and specifies the requirements for aluminium iron(III) chloride (monomeric) and aluminium iron(III) chloride hydroxide (monomeric) and refers to the corresponding test methods. It also gives information on their use in water treatment.

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative 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 European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

EN 1302, *Chemicals used for treatment of water intended for human consumption – Aluminium-based coagulants – Analytical methods.*

ISO 3165, *Sampling of chemical products for industrial use – Safety in sampling.*

ISO 6206, *Chemical products for industrial use - Sampling – Vocabulary.*

3 Description

3.1 Identification

3.1.1 Chemical name

- a) Aluminium iron(III) chloride (monomeric);
- b) Aluminium iron(III) chloride hydroxide (monomeric).

3.1.2 Synonym or common names

For Aluminium iron(III) chloride hydroxide (monomeric): bauxite or clay hydroxide chloride.

3.1.3 Relative molecular mass

Variable (see 3.1.4).

3.1.4 Empirical formula

$\text{Al}_x\text{Fe}_{1-x}(\text{OH})_a\text{Cl}_b$ with $(a + b) = 3$ and

$x = 0,67$ to $0,99$ for aluminium iron chlorides

$x = 0,80$ to $0,99$ for aluminium iron chloride hydroxides

$a = 0$ to $1,05$

$b = 3$ to $1,95$

$a = 0$ for aluminium iron(III) chloride (monomeric) products, and these products normally have a detectable free acidity (see 5.2)