

Chemicals used for treatment of water intended for human consumption - Aluminium chloride anhydrous, aluminium chloride basic, dialuminium chloride pentahydroxide and aluminium chloride hydroxide sulfate

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

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Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
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English Version

Chemicals used for treatment of water intended for human consumption - Aluminium chloride anhydrous, aluminium chloride basic, dialuminium chloride pentahydroxide and aluminium chloride hydroxide sulfate

Produits chimiques utilisés pour le traitement de l'eau destinée à la consommation humaine - Chlorure d'aluminium anhydre, chlorure d'aluminium basique, pentahydroxychlorure de dialuminium et hydroxychlorosulfate d'aluminium

Produkte zur Aufbereitung von Wasser für den menschlichen Gebrauch - Aluminiumchlorid, wasserfrei, Aluminiumchlorid, basisch, Dialuminiumchloridpentahydroxid und Aluminiumchloridhydroxidsulfat

This European Standard was approved by CEN on 30 November 2017.

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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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European foreword

This document (EN 17034:2018) 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of an identical text or by endorsement, at the latest by July 2018 and conflicting national standards shall be withdrawn at the latest by July 2018.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 883:2004, EN 881:2004.

Significant technical differences between this edition and EN 883:2004 and EN 881:2004 are as follows:

- a) adding the product aluminium chloride basic and the information related to it;
- b) deletion of the reference to EU Directive 80/778/EEC of 15 July 1980;
- c) Annex A is informative;
- d) 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, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey 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 document:

- a) this document 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.

NOTE Conformity with this document does not confer or imply acceptance or approval of the product in any of the Member States of the EU or EFTA. The use of the product covered by this document is subject to regulation or control by National Authorities.

1 Scope

This document is applicable to aluminium chloride anhydrous, aluminium chloride basic, dialuminium chloride pentahydroxide and aluminium chloride hydroxide sulfate used for treatment of water intended for human consumption. It describes the characteristics and specifies the requirements of aluminium chloride basic, polyaluminium chloride hydroxide and polyaluminium chloride hydroxide sulfate and refers to the corresponding analytical methods. It gives information for their use in water treatment. It also gives the usable rules relating to safe handling and use of these aluminium salts (see Annex B).

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

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 names

- a) Aluminium chloride anhydrous
- b) Aluminium chloride, basic
- c) Dialuminium chloride pentahydroxide
- d) Aluminium chloride hydroxide sulfate

3.1.2 Synonym or common names

- a) Aluminium (III) chloride, Aluminium trichloride
- b) Aluminium chloride, polyaluminium chloride, polyaluminium chloride hydroxide PAC, PACI

NOTE In French, the term "Polychlorure d'aluminium" is deprecated.

- c) Aluminium chloro hydrate, Polyaluminium chloride
- d) Polyaluminium chloride, PAC; polyaluminium chloride sulfate, PACS

3.1.3 Relative molecular mass

Variable (see 3.1.4).