

**Chemicals used for treatment of water
intended for human consumption -
Polyaluminium chloride hydroxyde and
polyaluminium chloride hydroxyde
sulfate**

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human consumption - Polyaluminium chloride
hydroxyde and polyaluminium chloride hydroxyde
sulfate

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 883:2005 sisaldab Euroopa standardi EN 883:2004 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 25.01.2005 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 883:2005 consists of the English text of the European standard EN 883:2004.</p> <p>This document is endorsed on 25.01.2005 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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<p>Käsitlusala:</p> <p>This European Standard is applicable to polyaluminium chloride hydroxide and polyaluminium chloride hydroxide sulfate used for treatment of water intended for human consumption .It describes the characteristics and specifies the requirements of polyaluminium chloride hydroxide and polyaluminium chloride hydroxide sulfate and refers to the corresponding analytical methods. It also gives information for their use in water treatment</p>	<p>Scope:</p> <p>This European Standard is applicable to polyaluminium chloride hydroxide and polyaluminium chloride hydroxide sulfate used for treatment of water intended for human consumption .It describes the characteristics and specifies the requirements of polyaluminium chloride hydroxide and polyaluminium chloride hydroxide sulfate and refers to the corresponding analytical methods. It also gives information for their use in water treatment</p>
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ICS 71.100.80

Võtmesõnad:

English version

Chemicals used for treatment of water intended for human
consumption - Polyaluminium chloride hydroxyde and
polyaluminium chloride hydroxyde sulfate

Produits chimiques utilisés pour le traitement de l'eau
destinée à la consommation humaine -
Polyhydroxychlorure d'aluminium et
Polyhydroxychlorosulfate d'aluminium

Produkte zur Aufbereitung von Wasser für den
menschlichen Gebrauch - Polyaluminiumchloridhydroxid
und Polyaluminiumchloridhydroxidsulfat

This European Standard was approved by CEN on 30 September 2004.

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. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

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 Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.



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Foreword

This document (EN 883:2004) 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 May 2005, and conflicting national standards shall be withdrawn at the latest by May 2005.

This document supersedes EN 883:1997.

Significant technical differences between this edition and EN 883:1997 are as follows:

- a) replacement of the reference to EU Directive 80/778 of 15 July 1980 with the latest Directive in force (see[1]);
- b) introduction of an annex B (normative) giving general rules relating to safety;
- c) expansion of annex A by addition of A.2" Quality of commercial product"

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and 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 polyaluminium chloride hydroxide and polyaluminium chloride hydroxide sulfate used for treatment of water intended for human consumption. It describes the characteristics and specifies the requirements of 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 determines the rules relating to safe handling and use of these aluminium salts (see Annex B).

2 Normative references

The following referenced documents are indispensable for the application 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 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) Polyaluminium chloride hydroxide;
- b) Polyaluminium chloride hydroxide sulfate.

3.1.2 Synonym or common names

- a) Polyaluminium chloride, PAC, PACl ; basic aluminium chloride, BAC.

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

- b) Polyaluminium chloride, PAC ; polyaluminium chloride sulfate, PACS.

3.1.3 Relative molecular mass

Variable (see 3.1.4).

3.1.4 Empirical formula

- a) $\text{Al}(\text{OH})_a\text{Cl}_b$ with $(a + b) = 3$ and a greater than 1,05;
- b) $\text{Al}(\text{OH})_a\text{Cl}_b(\text{SO}_4)_c$ with $(a + b + 2c) = 3$ and a greater than 1,05.

3.1.5 Chemical formula

Variable (see 3.1.4).