

**Chemicals used for treatment of water
intended for human consumption -
Polyaluminium hydroxide silicate
sulfate**

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human consumption - Polyaluminium hydroxide
silicate sulfate

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 886:2005 sisaldab Euroopa standardi EN 886:2004 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 886:2005 consists of the English text of the European standard EN 886:2004.</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 hydroxide silicate sulfate used for treatment of water intended for human consumption. It describes the characteristics of polyaluminium hydroxide silicate sulfate and specifies the requirements for polyaluminium hydroxide silicate sulfate and refers to the corresponding analytical methods. It gives information on its use in water treatment. It also determines the rules to safe handling and use of polyaluminium hydroxide silicate sulfate (see annex B).</p>	<p>Scope:</p> <p>This European Standard is applicable to polyaluminium hydroxide silicate sulfate used for treatment of water intended for human consumption. It describes the characteristics of polyaluminium hydroxide silicate sulfate and specifies the requirements for polyaluminium hydroxide silicate sulfate and refers to the corresponding analytical methods. It gives information on its use in water treatment. It also determines the rules to safe handling and use of polyaluminium hydroxide silicate sulfate (see annex B).</p>
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Võtmesõnad: chemical analysis and testin, chemical elements and inorg, preparation, purification, purity, quality, silicate, silicates, storage, sulphates, testing, transport, use, water, water practice, water purification, water supply, water treatment

English version

Chemicals used for treatment of water intended for human consumption - Polyaluminium hydroxide silicate sulfate

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

Produkte zur Aufbereitung von Wasser für den
Menschlichen Gebrauch -
Polyaluminiumhydroxidsilikatsulfat

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 886:2004) 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 886:2001.

Significant technical differences between this edition and EN 886:2001 are as follows:

- a) replacement of the reference to EU Directive 80/778 of July, 15 1980 with the latest Directive in force (see[1]);
- b) 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:

- 1) 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;
- 2) 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 hydroxide silicate sulfate used for treatment of water intended for human consumption. It describes the characteristics of polyaluminium hydroxide silicate sulfate and specifies the requirements for polyaluminium hydroxide silicate sulfate and refers to the corresponding analytical methods. It gives information on its use in water treatment. It also determines the rules to safe handling and use of polyaluminium hydroxide silicate sulfate (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 name

Polyaluminium hydroxide silicate sulfate.

3.1.2 Synonym or common names

Polyaluminium silicate sulfate, PASS.

3.1.3 Relative molecular mass

Variable (see 3.1.4).

3.1.4 Empirical formula

Polyaluminium hydroxide silicate sulfate is a synthetically manufactured polymerized basified aluminium salt containing silicate. The structure of the product is polymeric.

$\text{Al}(\text{OH})_a(\text{SO}_4)_b(\text{SiOx})_c$ with $a + 2b + 2c(x - 2) = 3$

and $a = 1,05$ to $2,0$

$b = 0,30$ to $1,12$

$c = 0,005$ to $0,10$

$x = 2,0$ to $4,0$

3.1.5 Chemical formula

Variable (see 3.1.4).