

Chemicals used for treatment of swimming pool water — Aluminium based coagulants

ICS 71.100.80,

National foreword

This British Standard is the UK implementation of EN 15031:2006.

The UK participation in its preparation was entrusted to Technical Committee CII/59, Chemicals for drinking water treatment.

A list of organizations represented on this committee can be obtained on request to its secretary.

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English Version

**Chemicals used for treatment of swimming pool water -
Aluminium based coagulants**

Produits chimiques utilisés pour le traitement de l'eau des
piscines - Coagulants à base d'aluminium

Produkte zur Aufbereitung von Schwimm- und
Badebeckenwasser - Flockungsmittel auf Aluminiumbasis

This European Standard was approved by CEN on 13 April 2006.

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Management Centre: rue de Stassart, 36 B-1050 Brussels

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Foreword

This document (EN 15031:2006) 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of an identical text or by endorsement, at the latest by November 2006, and conflicting national standards shall be withdrawn at the latest by November 2006.

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, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

Introduction

In respect of potential adverse effects on the quality of water for swimming pools, caused by the products covered by this European Standard:

- a) this European Standard provides no information as to whether the products 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 these products remain in force.

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

1 Scope

This European Standard is applicable to aluminium based coagulants (aluminium sulfate, aluminium chloride (monomeric), aluminium chloride hydroxide (monomeric), aluminium chloride hydroxide sulfate (monomeric), sodium aluminate and polyaluminium chloride hydroxide and polyaluminium chloride hydroxide sulfate) used directly or for the production of formulations for treatment of water for swimming pools.

It describes the characteristics of aluminium based coagulants and specifies the requirements and the corresponding test methods for aluminium based coagulants. It gives information on their use in swimming pool water treatment. It also determines the rules relating to safe handling and use (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 878	<i>Chemicals used for treatment of water intended for human consumption - Aluminium sulfate.</i>
EN 881	<i>Chemicals used for treatment of water intended for human consumption - Aluminium chloride (monomeric), aluminium chloride hydroxide (monomeric) and aluminium chloride hydroxide sulfate (monomeric).</i>
EN 882	<i>Chemicals used for treatment of water intended for human consumption - Sodium aluminate.</i>
EN 883	<i>Chemicals used for treatment of water intended for human consumption - Polyaluminium chloride hydroxyde and polyaluminium chloride hydroxyde sulfate.</i>
EN 1302	<i>Chemicals used for treatment of water intended for human consumption-Aluminium based coagulants - Analytical methods.</i>
ISO 3165	<i>Sampling of chemical products for industrial use - Safety in sampling.</i>
ISO 6206	<i>Chemical products for industrial use - Sampling – Vocabulary.</i>
ISO 8213	<i>Chemical products for industrial use - Sampling techniques - Solid chemical products in the form of particles varying from powders to coarse lumps.</i>

3 Description

The identification, the commercial form, the physical properties and the chemical properties are given in the relevant sub-clauses of EN 878, EN 881, EN 882 and EN 883.

4 Purity criteria

4.1 General

This European Standard specifies the minimum purity requirements for aluminium based coagulants used for the treatment of water for swimming pools. Limits are given for impurities commonly present in the products. 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.