



**NSAI**  
Standards

Irish Standard  
I.S. EN 887:2016

Chemicals used for treatment of water  
intended for human consumption -  
Aluminium iron (III) sulfate

**I.S. EN 887:2016**

*Incorporating amendments/corrigenda/National Annexes issued since publication:*

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## National Foreword

I.S. EN 887:2016 is the adopted Irish version of the European Document EN 887:2016, Chemicals used for treatment of water intended for human consumption - Aluminium iron (III) sulfate

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EUROPEAN STANDARD

EN 887

NORME EUROPÉENNE

EUROPÄISCHE NORM

March 2016

ICS 71.100.80

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English Version

## Chemicals used for treatment of water intended for human consumption - Aluminium iron (III) sulfate

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

Produkte zur Aufbereitung von Wasser für den menschlichen Gebrauch - Aluminium-Eisen(III)-sulfat

This European Standard was approved by CEN on 18 January 2016.

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**CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels**

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## **EN 887:2016 (E)**

### **European foreword**

This document (EN 887:2016) 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of an identical text or by endorsement, at the latest by September 2016, and conflicting national standards shall be withdrawn at the latest by September 2016.

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

This document supersedes EN 887:2004.

Significant technical differences between this edition and EN 887:2004 are as follows:

- a) addition of CAS Registry Numbers for aluminium sulfate tetradecahydrate, hexadecahydrate and octadecahydrate;
- b) addition of normative reference concerning the determination of iron (III) sulfate;
- c) replacement of warning and safety precautions notes by labelling according to Regulation (EC) No 1272/2008”.

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, 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.

**EN 887:2016 (E)****1 Scope**

This document is applicable to aluminium iron (III) sulfate used for treatment of water intended for human consumption. It describes the characteristics of aluminium iron (III) sulfate and specifies the requirements for aluminium iron (III) sulfate and refers to the corresponding analytical methods. It gives information on its use in water treatment. It also determines the rules relating to safe handling and use of aluminium iron (III) sulfate (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 890:2012, *Chemicals used for treatment of water intended for human consumption - Iron (III) sulfate solution*

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*

ISO 8213, *Chemical products for industrial use — Sampling techniques — Solid chemical products in the form of particles varying from powders to coarse lumps*

**3 Description****3.1 Identification****3.1.1 Chemical name**

Aluminium iron (III) sulfate.

**3.1.2 Synonym or common name**

Aluminium and iron sulfate.

**3.1.3 Relative molecular mass**

Variable (see 3.1.4).

**3.1.4 Empirical formula**

$(Al_x Fe_{1-x})_2 (SO_4)_3$  where  $x$  is 0,70 to 0,95.

**3.1.5 Chemical formula**

$xAl_2(SO_4)_3 \cdot (1-x) Fe_2(SO_4)_3 \cdot n H_2O$  where  $n$  is variable and  $x$  varies from 0,70 to 0,95.

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