



NSAI
Standards

Irish Standard
I.S. EN 12174:2013

Chemicals used for treatment of water intended for human consumption - Sodium hexafluorosilicate

I.S. EN 12174:2013

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NSAI
1 Swift Square,
Northwood, Santry
Dublin 9

T +353 1 807 3800
F +353 1 807 3838
E standards@nsai.ie
W NSAI.ie

Sales:
T +353 1 857 6730
F +353 1 857 6729
W standards.ie

Údarás um Chaighdeáin Náisiúnta na hÉireann

English Version

Chemicals used for treatment of water intended for human consumption - Sodium hexafluorosilicate

Produits chimiques utilisés pour le traitement de l'eau destinée à la consommation humaine - Hexafluorosilicate de sodium

Produkte zur Aufbereitung von Wasser für den menschlichen Gebrauch - Natriumhexafluorsilikat

This European Standard was approved by CEN on 28 March 2013.

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Management Centre: Avenue Marnix 17, B-1000 Brussels

Contents

	Page
Foreword.....	3
Introduction	4
1 Scope.....	5
2 Normative references.....	5
3 Description	5
3.1 Identification.....	5
3.2 Commercial form.....	6
3.3 Physical properties	6
3.4 Chemical properties.....	7
4 Purity criteria.....	7
4.1 General	7
4.2 Composition of commercial product.....	7
4.3 Impurities and main by-products	7
4.4 Chemical parameters	8
5 Test methods.....	8
5.1 Sampling.....	8
5.2 Analyses	8
6 Labelling - Transportation - Storage	14
6.1 Means of delivery	14
6.2 Labelling according to the EU legislation	14
6.3 Transportation regulations and labelling.....	14
6.4 Marking	15
6.5 Storage	15
Annex A (informative) General information on sodium hexafluorosilicate	16
A.1 Origin.....	16
A.2 Use.....	16
Annex B (normative) General rules relating to safety	17
B.1 Rules for safe handling and use.....	17
B.2 Emergency procedures.....	17
Bibliography.....	18

Foreword

This document (EN 12174:2013) 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of an identical text or by endorsement, at the latest by November 2013, and conflicting national standards shall be withdrawn at the latest by November 2013.

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 12174:2006.

Significant differences between this edition and EN 12174:2006 are as follows:

- the replacement of warning and safety precautions notes by labelling according to Regulation (EC) No 1272/2008.

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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 European Standard is applicable to sodium hexafluorosilicate used for treatment of water intended for human consumption. It describes the characteristics of sodium hexafluorosilicate and specifies the requirements and the corresponding test methods for sodium hexafluorosilicate. It gives information on its use in water treatment. It also determines the rules relating to safe handling and use of sodium hexafluorosilicate (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 ISO 3696:1995, *Water for analytical laboratory use — Specification and test methods (ISO 3696:1987)*

ISO 3165, *Sampling of chemical products for industrial use — Safety in sampling*

ISO 4281, *Sodium hexafluorosilicate for industrial use — Determination of free acidity and total hexafluorosilicate content — Titrimetric method*

ISO 4793, *Laboratory sintered (fritted) filters — Porosity grading, classification and designation*

ISO 5444, *Sodium fluorosilicate for industrial use — Determination of loss in mass at 105 degrees C*

ISO 5993, *Sodium hydroxide for industrial use — Determination of mercury content — Flameless atomic absorption spectrometric method*

ISO 6206, *Chemical products for industrial use — Sampling — Vocabulary*

ISO 6353-1, *Reagents for chemical analysis — Part 1: General test methods*

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

Disodium hexafluorosilicate.

3.1.2 Synonym or common name

Sodium silicofluoride, sodium hexafluorosilicate.

3.1.3 Relative molecular mass

188,055.

3.1.4 Empirical formula

Na₂SiF₆.

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