



NSAI
Standards

Irish Standard Recommendation
S.R. CEN/TS 17753:2022

Inorganic fertilizers - Determination of specific contaminants

S.R. CEN/TS 17753:2022

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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

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National Foreword

S.R. CEN/TS 17753:2022 is the adopted Irish version of the European Document CEN/TS 17753:2022, Inorganic fertilizers - Determination of specific contaminants

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TECHNICAL SPECIFICATION
SPÉCIFICATION TECHNIQUE
TECHNISCHE SPEZIFIKATION

CEN/TS 17753

April 2022

ICS 65.080

English Version

**Inorganic fertilizers - Determination of specific
contaminants**

Engrais inorganiques - Détermination des
contaminants spécifiques

Anorganische Düngemittel - Bestimmung spezifischer
Kontaminanten

This Technical Specification (CEN/TS) was approved by CEN on 13 March 2022 for provisional application.

The period of validity of this CEN/TS is limited initially to three years. After two years the members of CEN will be requested to submit their comments, particularly on the question whether the CEN/TS can be converted into a European Standard.

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CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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European foreword

This document (CEN/TS 17753:2022) has been prepared by Technical Committee CEN/TC 260 “Fertilizers and liming materials”, the secretariat of which is held by DIN.

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 has been prepared under a standardization request given to CEN by the European Commission and the European Free Trade Association.

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CEN/TS 17753:2022 (E)

Introduction

Regulation (EU) 2019/1009 [3] lays down the rules on the making available on the market of EU fertilizing products and the specific safety and quality requirements for the defined product function categories (PFCs). Inorganic fertilizers have been classified into PFC 1(C).

The specific safety and quality requirements in relation to specific contaminants (i.e. the mercury, cadmium, nickel, copper, zinc, arsenic, lead, chromium VI, biuret, perchlorate and total chromium content) are defined in this document as well as normative references of the test methods to be used in order to measure the compliance with the related requirement in the Regulation (EU) 2019/1009 [3].

1 Scope

This document specifies references to methods for the determination of the following contaminants: mercury, cadmium, nickel, copper, zinc, arsenic, lead, chromium(VI), biuret, perchlorate and total chromium content in inorganic fertilizers.

This document is applicable to EU fertilizing products classified as PFC 1(C) and PFC 7 as long as the blend only consists of EU fertilizing products classified as PFC 1(C), PFC 2 and PFC 5 as specified in the Regulation (EU) 2019/1009 [3].

An overview of the references to methods for the determination of the specific contaminants is given in Table 1.

NOTE 1 The determination of copper and zinc in inorganic fertilizers as micronutrients is covered by CEN/TS 17754:2022.

NOTE 2 The determination of copper in ammonium nitrate fertilizers of high nitrogen content is covered by CEN/TS 17751:2022.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 1482-1:2007, *Fertilizers and liming materials — Sampling and sample preparation — Part 1: Sampling*

EN 1482-2:2007, *Fertilizers and liming materials — Sampling and sample preparation — Part 2: Sample preparation*

EN 1482-3:2016, *Fertilizers and liming materials — Sampling and sample preparation — Part 3: Sampling of static heaps*

EN 12944-1:1999,¹ *Fertilizers and liming materials — Vocabulary — Part 1: General terms*

EN 12944-2:1999,² *Fertilizers and liming materials — Vocabulary — Part 2: Terms relating to fertilizers*

EN 15479:2009, *Fertilizers — Spectrophotometric determination of biuret in urea*

EN 16317:2013+A1:2017, *Fertilizers and liming materials — Determination of arsenic by inductively coupled plasma-atomic emission spectrometry (ICP-AES) after aqua regia dissolution*

EN 16318:2013+A1:2016, *Fertilizers and liming materials — Determination of chromium(VI) by photometry (method A) and by ion chromatography with spectrophotometric detection (method B)*

EN 16319:2013+A1:2015, *Fertilizers and liming materials — Determination of cadmium, chromium, lead and nickel by inductively coupled plasma-atomic emission spectrometry (ICP-AES) after aqua regia dissolution*

EN 16320:2013+A1:2017, *Fertilizers and liming materials — Determination of mercury by vapour generation (VG) after aqua regia dissolution*

¹ As impacted by EN 12944-1:1999/AC:2000.

² As impacted by EN 12944-2:1999/AC:2000.

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