ICS 13.080.30 SLOVENSKÁ TECHNICKÁ NORMA December 2015

STN	**Kvalita pôdy. Vplyvy znečisťujúcich látok na dážďovky. Časť 3: Pokyny na stanovenie vplyvov v pôde (ISO 11268-3: 2014).**	**STN EN ISO 11268-3** 46 5272

Soil quality - Effects of pollutants on earthworms - Part 3: Guidance on the determination of effects in field situations (ISO 11268-3:2014)

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 11/15

Obsahuje: EN ISO 11268-3:2015, ISO 11268-3:2014

121928

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN ISO 11268-3

August 2015

ICS 13.080.30

English Version

Soil quality - Effects of pollutants on earthworms - Part 3: Guidance on the determination of effects in field situations (ISO 11268-3:2014)

Qualité du sol - Effets des polluants vis-à-vis des vers de terre - Partie 3: Lignes directrices relatives à la détermination des effets sur site (ISO 11268-3:2014)

Bodenbeschaffenheit - Wirkungen von Schadstoffen auf Regenwürmer - Teil 3: Anleitung für die Bestimmung von Wirkungen unter Freilandbedingungen (ISO 11268-3:2014)

This European Standard was approved by CEN on 6 August 2015.

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 CEN-CENELEC Management Centre 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 CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of 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 United Kingdom.

EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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

Contents

Page

European foreword

The text of ISO 11268-3:2014 has been prepared by Technical Committee ISO/TC 190 “Soil quality” of the International Organization for Standardization (ISO) and has been taken over as EN ISO 11268-3:2015 by Technical Committee CEN/TC 345 “Characterization of soils” the secretariat of which is held by NEN.

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 February 2016, and conflicting national standards shall be withdrawn at the latest by February 2016.

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.

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.

Endorsement notice

The text of ISO 11268-3:2014 has been approved by CEN as EN ISO 11268-3:2015 without any modification.

INTERNATIONAL STANDARD

ISO 11268-3

Second edition
2014-10-15

Soil quality — Effects of pollutants on earthworms —

Part 3: Guidance on the determination of effects in field situations

Qualité du sol — Effets des polluants vis-à-vis des vers de terre —
Partie 3: Lignes directrices relatives à la détermination des effets sur site

Reference number
ISO 11268-3:2014(E)

ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

Published in Switzerland

Contents

Page

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: Foreword - Supplementary information

The committee responsible for this document is ISO/TC 190, *Soil quality*, Subcommittee SC 4, *Biological methods*.

This second edition cancels and replaces the first edition (ISO 11268-3:1999), which has been technically revised.

ISO 11268 consists of the following parts, under the general title *Soil quality — Effects of pollutants on earthworms*:

— *Part 1: Determination of acute toxicity to Eisenia fetida/Eisenia andrei*

— *Part 2: Determination of effects on reproduction to Eisenia fetida/Eisenia andrei*

— *Part 3: Guidance on the determination of effects in field situations*

Introduction

The earthworm field test is based on a method being developed by the German Federal Biological Research Centre for Agriculture and Forestry for the testing of pesticides.[6] Later, it was internationally standardized by the International Organization for Standardization (ISO), taking into account results and recommendations of an international workshop in 1991 in Sheffield, United Kingdom, [7] "Ecotoxicology of Earthworms", as a tool for characterizing soil quality. Growing experience has shown that the practical performance of the test can be improved. In two meetings organized by the Federal Biological Research Centre for Agriculture and Forestry (Braunschweig, 2002) and by the German Federal Agency for Consumer Protection and Food Safety (Lille, 2005), an ad-hoc working group of experts from various countries and institutions proposed recommendations that should be taken into account if revision has been approved by voting in the periodical review. A report of the discussions, comments, and recommendations has been published.[8]

In cases where earthworms and other organisms are used as bioindicators to assess the soil quality of a site as a habitat for soil organisms, guidance for extraction procedures and advice for planning a survey is given in ISO 23611-1 to ISO 23611-6.

INTERNATIONAL STANDARD ISO 11268-3:2014(E)

Soil quality — Effects of pollutants on earthworms —

Part 3:
Guidance on the determination of effects in field situations

1 Scope

This part of ISO 11268 specifies techniques for determining the effects of substances on earthworms in the field and provides a basis for determining the effects of chemicals applied to or incorporated into soil, including soil injections or drilled pelleted formulations.

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.

ISO 10390, *Soil quality — Determination of pH*

ISO 10694, *Soil quality — Determination of organic and total carbon after dry combustion (elementary analysis)*

ISO 11274, *Soil quality — Determination of the water-retention characteristic — Laboratory methods*

ISO 11277, *Soil quality — Determination of particle size distribution in mineral soil material — Method by sieving and sedimentation*

ISO 23611-1, *Soil quality — Sampling of soil invertebrates — Part 1: Hand-sorting and formalin extraction of earthworms*