

SLOVENSKI STANDARD
SIST-TS CEN ISO/TS 16558-2:2015
01-november-2015

Kakovost tal - Naftni ogljikovodiki, ki predstavljajo tveganje - 2. del: Določevanje alifatskih in aromatskih frakcij polhlapnih naftnih ogljikovodikov s plinsko kromatografijo s plamensko ionizacijsko detekcijo (GC/FID) (ISO/TS 16558-2:2015)

Soil quality - Risk-based petroleum hydrocarbons - Part 2: Determination of aliphatic and aromatic fractions of semi-volatile petroleum hydrocarbons using gas chromatography with flame ionisation detection (GC/FID) (ISO/TS 16558-2:2015)

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Bodenbeschaffenheit - Mineralölkohlenwasserstoffe für die Risikobeurteilung - Teil 2: Bestimmung aliphatischer und aromatischer Fraktionen schwerflüchtiger Mineralölkohlenwasserstoffe mittels Gaschromatographie mit Flammenionisationsdetektion (GC/FID) (ISO/TS 16558-2:2015)

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Qualité du sol - Hydrocarbures de pétrole à risque - Partie 2: Détermination des fractions aliphatiques et aromatiques des hydrocarbures de pétrole semi-volatiles par chromatographie en phase gazeuse avec détection d'ionisation de la flamme ((ISO/TS 16558-2:2015)

Ta slovenski standard je istoveten z: CEN ISO/TS 16558-2:2015

ICS:

13.080.10	Kemijske značilnosti tal	Chemical characteristics of soils
71.040.50	Fizikalnokemijske analitske metode	Physicochemical methods of analysis

SIST-TS CEN ISO/TS 16558-2:2015 en,fr,de

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TECHNICAL SPECIFICATION
SPÉCIFICATION TECHNIQUE
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CEN ISO/TS 16558-2

September 2015

ICS 13.080.10

English Version

**Soil quality - Risk-based petroleum hydrocarbons - Part 2:
Determination of aliphatic and aromatic fractions of semi-
volatile petroleum hydrocarbons using gas
chromatography with flame ionization detection (GC/FID)
(ISO/TS 16558-2:2015)**

Qualité du sol - Hydrocarbures de pétrole à risque -
Partie 2: Détermination des fractions aliphatiques et
aromatiques des hydrocarbures de pétrole semi-
volatiles par chromatographie en phase gazeuse avec
détection d'ionisation de la flamme (ISO/TS 16558-
2:2015)

Bodenbeschaffenheit - Mineralölkohlenwasserstoffe
für die Risikobeurteilung - Teil 2: Teil 2: Bestimmung
aliphatischer und aromatischer Fraktionen
schwerflüchtiger Mineralölkohlenwasserstoffe mittels
Gaschromatographie mit Flammenionisationsdetektion
(GC/FID) (ISO/TS 16558-2:2015)

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This Technical Specification (CEN/TS) was approved by CEN on 13 July 2015 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.

CEN members are required to announce the existence of this CEN/TS in the same way as for an EN and to make the CEN/TS available promptly at national level in an appropriate form. It is permissible to keep conflicting national standards in force (in parallel to the CEN/TS) until the final decision about the possible conversion of the CEN/TS into an EN is reached.

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Contents

Page

European foreword.....	3
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[SIST-TS CEN ISO/TS 16558-2:2015](https://standards.iteh.ai/catalog/standards/sist/780a348f-b6a2-4049-9f75-1445981eb422/sist-ts-cen-iso-ts-16558-2-2015)

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European foreword

This document (CEN ISO/TS 16558-2:2015) has been prepared by Technical Committee ISO/TC 190 “Soil quality” in collaboration with Technical Committee CEN/TC 345 “Characterization of soils” the secretariat of which is held by NEN.

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Endorsement notice

The text of ISO/TS 16558-2:2015 has been approved by CEN as CEN ISO/TS 16558-2:2015 without any modification.

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TECHNICAL
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**Soil quality — Risk-based petroleum
hydrocarbons —**

Part 2:

**Determination of aliphatic and
aromatic fractions of semi-volatile
petroleum hydrocarbons using gas
chromatography with flame ionization
detection (GC/FID)**

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*Qualité du sol — Hydrocarbures de pétrole à risque —
Partie 2: Détermination des fractions aliphatiques et aromatiques
des hydrocarbures de pétrole semi-volatiles par chromatographie en
phase gazeuse avec détection à ionisation de la flamme (CPG-FID)*

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Contents

Page

Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	2
4 Interferences	2
5 Principle	2
6 Reagents	3
7 Apparatus	4
8 Sampling, sample conservation, and pretreatment	5
9 Procedure	5
9.1 Blank.....	5
9.2 Extraction.....	6
9.2.1 Total petroleum hydrocarbons.....	6
9.2.2 Split into aliphatic and aromatic fractions.....	6
9.3 Determination by gas chromatography.....	7
9.3.1 Test of the performance of the gas chromatographic system.....	7
9.3.2 Repeatability test.....	7
9.3.3 Calibration.....	7
9.3.4 Validity check of the calibration function.....	7
9.3.5 Measurement.....	7
9.3.6 Integration.....	7
9.3.7 Calculation of the total petroleum hydrocarbons.....	9
9.3.8 Calculation of the individual extractable fractions.....	9
9.4 Quality control.....	9
9.4.1 Suitability check of the split procedure.....	9
10 Expression of results	10
11 Test report	10
Annex A (informative) Examples of gas chromatograms of total extractable petroleum hydrocarbon and aliphatic and aromatic fractions in a standard solution and in soil samples	11
Annex B (informative) Determination of the boiling range of mineral oil hydrocarbons from the gas chromatogram	14
Annex C (informative) Information on split of aliphatic and aromatic fractions using silicagel	16
Bibliography	20

ISO/TS 16558-2:2015(E)

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).

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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](#)

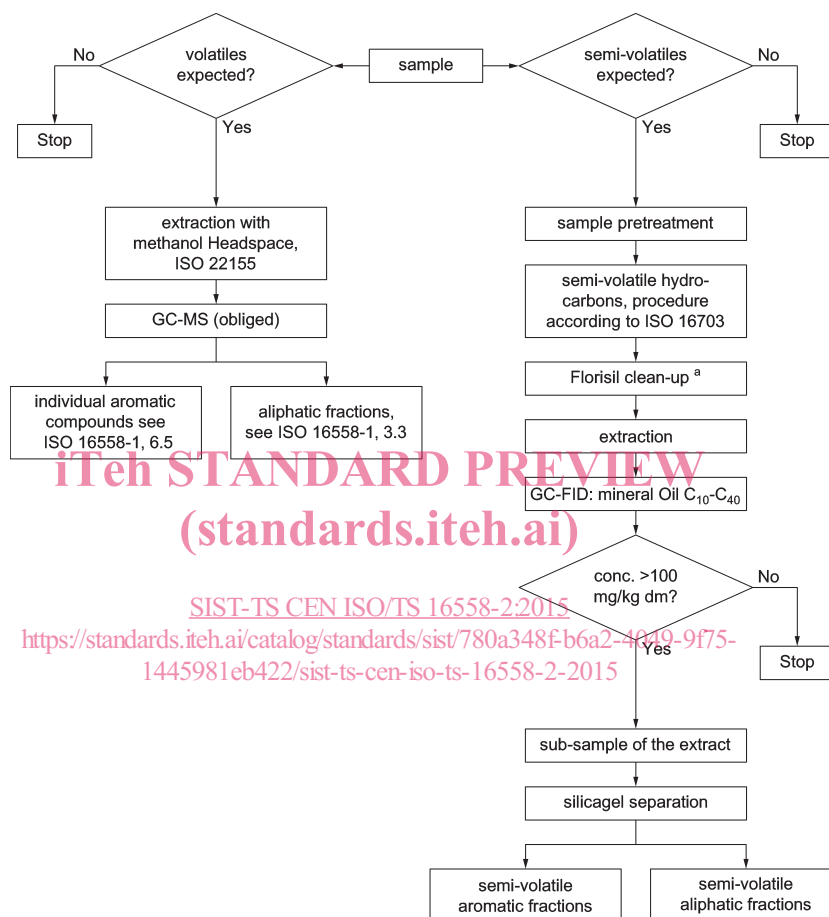
The committee responsible for this document is ISO/TC 190, *Soil quality*, Subcommittee SC 3, *Chemical methods and soil characteristics*.

ISO 16558 consists of the following parts, under the general title *Soil quality — Risk-based petroleum hydrocarbons*:

- *Part 1: Determination of aliphatic and aromatic fractions of volatile petroleum hydrocarbons using gas chromatography (static headspace method)*
- *Part 2: Determination of aliphatic and aromatic fractions of semi-volatile petroleum hydrocarbons using gas chromatography with flame ionization detection (GC/FID)* [Technical Specification]

Introduction

ISO 11504 establishes a basis for the choice of fractions and individual compounds when carrying out analysis for petroleum hydrocarbons in soils and soil-like materials including sediments. It provides guidance for the appropriate use of the analytical results in risks assessment. This part of ISO 16558 specifies methods for the quantitative determination of the appropriate fractions of aliphatic and aromatic compounds. The methods described in this part of ISO 16558 are based on existing standards [mineral oil (ISO 16703) and volatile hydrocarbons (ISO 22155)]. The general use and relation between the two different parts of ISO 16558 are given in [Figure 1](#).



Key

- Florisol[®] clean-up: Only to be applied in case the test according to ISO 16703 is carried out. If the aliphatic and aromatic fractions have to be analysed, Florisol clean-up is not to be carried out. Florisol[®] is a trade name for a prepared diatomaceous substance, mainly consisting of anhydrous magnesium silicate.
- Florisol[®] is an example of a suitable product available commercially. This information is given for the convenience of users of this part of ISO 16558 and does not constitute an endorsement by ISO of this product.

Figure 1 — Use of different analytical International Standards during risk assessment of petroleum hydrocarbons

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