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**Kakovost tal - Naftni ogljikovodiki, ki predstavljajo tveganje - 1. del: Določevanje alifatskih in aromatskih frakcij hlapnih naftnih ogljikovodikov s plinsko kromatografijo (metoda s statičnim vzorčevalnikom iz plinske faze - headspace) (ISO 16558-1:2015)**

Soil quality - Risk based petroleum hydrocarbons - Part 1: Determination of aliphatic and aromatic fractions of volatile petroleum hydrocarbons using gas chromatography (static headspace method) (ISO 16558-1:2015)

**iTeh STANDARD PREVIEW**

Bodenbeschaffenheit - Mineralölkohlenwasserstoffe für die Risikobeurteilung - Teil 1: Bestimmung aliphatischer und aromatischer Fraktionen leicht flüchtiger Mineralölkohlenwasserstoffe mittels Gaschromatographie (statisches Headspace-Verfahren) (ISO 16558-1:2015)

Qualité du sol - Hydrocarbures de pétrole à risque - Partie 1: Détermination des fractions aliphatiques et aromatiques des hydrocarbures de pétrole volatiles par chromatographie en phase gazeuse (méthode par espace de tête statique) (ISO 16558-1:2015)

**Ta slovenski standard je istoveten z: EN ISO 16558-1:2015**

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**ICS:**

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71.040.50	Fizikalnokemijske analitske metode	Physicochemical methods of analysis

**SIST EN ISO 16558-1:2015**

**en,fr,de**

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EUROPEAN STANDARD

EN ISO 16558-1

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English Version

Soil quality - Risk-based petroleum hydrocarbons - Part 1:  
Determination of aliphatic and aromatic fractions of  
volatile petroleum hydrocarbons using gas  
chromatography (static headspace method) (ISO 16558-  
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Qualité du sol - Hydrocarbures de pétrole à risque -  
Partie 1: Détermination des fractions aliphatiques et  
aromatiques des hydrocarbures de pétrole volatiles  
par chromatographie en phase gazeuse (méthode par  
espace de tête statique) (ISO 16558-1:2015)

Bodenbeschaffenheit - Mineralölkohlenwasserstoffe  
für die Risikobeurteilung - Teil 1: Bestimmung  
aliphatischer und aromatischer Fraktionen leicht  
flüchtiger Mineralölkohlenwasserstoffe mittels  
Gaschromatographie (statisches Headspace-Verfahren)  
(ISO 16558-1:2015)

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This European Standard was approved by CEN on 13 June 2015.

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## European foreword

This document (EN ISO 16558-1:2015) 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.

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

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

Part 1:

**Determination of aliphatic and  
aromatic fractions of volatile  
petroleum hydrocarbons using gas  
chromatography (static headspace  
method)**

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*Qualité du sol — Hydrocarbures de pétrole à risque —  
Partie 1: Détermination des fractions aliphatiques et aromatiques  
des hydrocarbures de pétrole volatiles par chromatographie en phase  
gazeuse (méthode par espace de tête statique)*

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## ISO 16558-1:2015(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](http://www.iso.org/directives)).

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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 3, *Chemical methods and soil characteristics*.

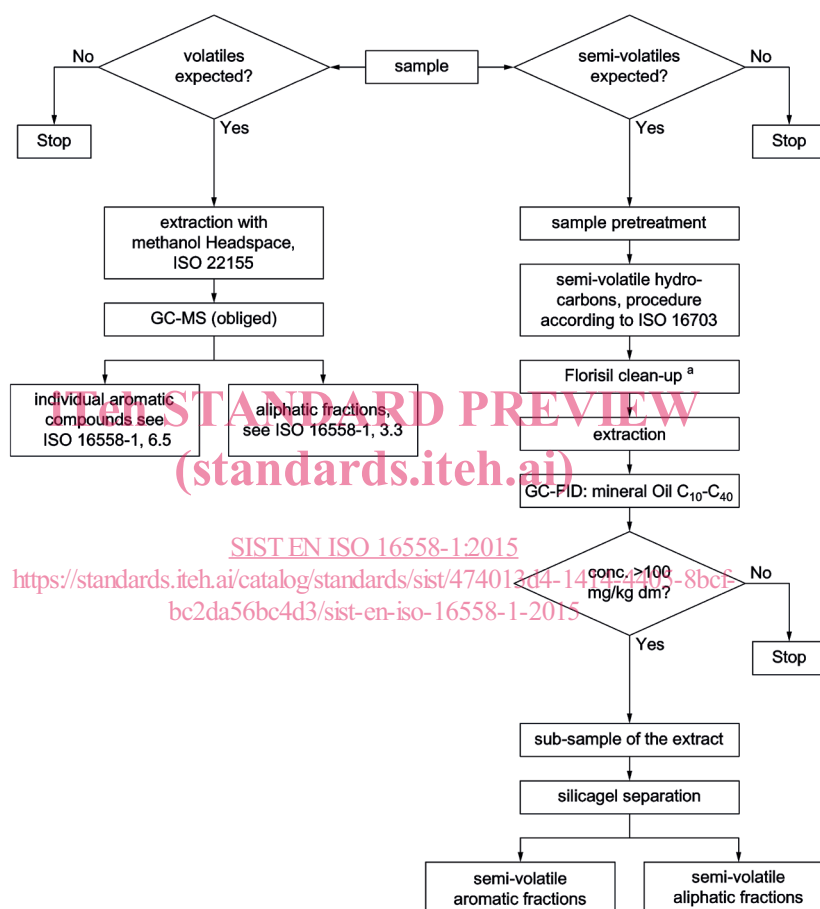
ISO 16558 consists of the following parts, under the general title *Soil quality — Risk-based petroleum hydrocarbons*:

- *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 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 this International Standard is given in [Figure 1](#).



### Key

- <sup>a</sup> Florisil<sup>®</sup> 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 should not be carried out. Florisil<sup>®</sup> is a trade name for a prepared diatomaceous substance mainly consisting of anhydrous magnesium silicate.
- <sup>b</sup> Florisil<sup>®</sup> is an example of a suitable product available commercially. This information is given for the convenience of users of this International Standard 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**