

STN	Kvalita pôdy. Stanovenie objemovej hmotnosti častíc (ISO 11508: 1998).	STN EN ISO 11508 46 5210
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Soil quality - Determination of particle density (ISO 11508:1998)

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. 08/14

Obsahuje: EN ISO 11508:2014, ISO 11508:1998

119335

Úrad pre normalizáciu, metrológiu a skúšobníctvo SR, odbor SÚTN, 2014
Podľa zákona č. 264/1999 Z. z. v znení neskorších predpisov sa môžu slovenské technické normy rozmnožovať a rozširovať iba so súhlasom Úradu pre normalizáciu, metrológiu a skúšobníctvo SR.

EUROPEAN STANDARD

EN ISO 11508

NORME EUROPÉENNE

EUROPÄISCHE NORM

March 2014

ICS 13.080.20

English Version

Soil quality - Determination of particle density (ISO 11508:1998)Qualité du sol - Détermination de la masse volumique des
particules (ISO 11508:1998)Bodenbeschaffenheit - Bestimmung der Kornrohdichte (ISO
11508:1998)

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Foreword

The text of ISO 11508:1998 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 11508:2014 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of an identical text or by endorsement, at the latest by September 2014, and conflicting national standards shall be withdrawn at the latest by September 2014.

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Endorsement notice

The text of ISO 11508:1998 has been approved by CEN as EN ISO 11508:2014 without any modification.

INTERNATIONAL STANDARD

ISO
11508

First edition
1998-03-01

Soil quality — Determination of particle density

Qualité du sol — Détermination de la masse volumique des particules



Reference number
ISO 11508:1998(E)

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Printed in Switzerland

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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 11508 was prepared by Technical Committee ISO/TC 190, *Soil quality*, Subcommittee SC 5, *Physical methods*.

Introduction

The particle density (ρ_s) is used together with the dry bulk density (ρ_s^b , see ISO 11272) for the calculation of the pore volume of a soil layer.

Soil quality — Determination of particle density

1 Scope

This International Standard describes two methods for the determination of particle density of soils calculated from the mass and the volume of soil particles.

The first method (4.1) is applicable to fine soil (< 2 mm diameter) and the second method (4.2) is applicable to both porous and nonporous gravel and stones (> 2 mm diameter).

The particle density may be used for the calculation of the proportion of solids and of the porosity of soil layers in combination with the procedure given in ISO 11272.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 565:1990, *Test sieves — Metal wire cloth, perforated metal plate and electroformed sheet — Nominal sizes of openings*.

ISO 10381-1:—¹⁾, *Soil quality — Sampling — Part 1: Guidance on the design of sampling programmes*.

ISO 11272:—¹⁾, *Soil quality — Determination of dry bulk density*.

ISO 11461:—¹⁾, *Soil quality — Determination of soil water content on a volume basis — Gravimetric method*.

koniec náhľadu – text ďalej pokračuje v platenej verzii STN

¹⁾ To be published.