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Second edition
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Soil quality — Determination of particle density

Qualité du sol — Détermination de la masse volumique des particules



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Contents

	Page
Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Procedure	1
4.1 Fine soil (<2 mm diameter).....	1
4.1.1 Principle.....	1
4.1.2 Apparatus.....	2
4.1.3 Sampling.....	2
4.1.4 Density determination.....	2
4.1.5 Calculation.....	2
4.2 Gravel and stones (>2 mm diameter).....	3
4.2.1 Apparatus.....	3
4.2.2 Density determination.....	3
4.2.3 Calculation.....	4
4.3 Unified reference temperature.....	5
4.4 Calculation of mean particle density.....	5
5 Test report	5
Annex A (informative) Density of water at different temperatures	6
Bibliography	9

Foreword

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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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This document was prepared by Technical Committee ISO/TC 190, *Soil quality*, Subcommittee SC 3, *Chemical methods and soil characteristics*.

This second edition cancels and replaces the first edition (ISO 11508:1998), which has been technically revised.

The main changes compared to the previous edition are as follows:

- a) the terms and definitions have been updated;
- b) a new subclause 4.3 "Unified reference temperature" was added;
- c) a new subclause 4.4 "Calculation of mean particle density" was added;
- d) Table 1, "Density of water...", was deleted under 4.1.4;
- e) a new Annex A "Density of water at different temperatures" was added;
- f) bibliographic references were added;
- g) editorial changes were made.

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Introduction

This document specifies the particle density (ρ_s) which is used together with the dry bulk density ($^b\rho_s$, see ISO 11272) for the calculation of the pore volume of a soil layer.