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Geotechnical investigation and testing — Laboratory testing of soil —

Part 3: Determination of particle density

Reconnaissance et essais géotechniques — Essais de laboratoire sur les sols —

Partie 3: Détermination de la masse volumique des grains



Reference number
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Contents

	Page
Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Apparatus	1
4.1 Calibration requirements.....	1
4.2 General.....	2
4.3 Fluid displacement equipment.....	2
4.4 Gas displacement equipment.....	3
5 Test procedures	4
5.1 Fluid pycnometer method.....	4
5.1.1 General.....	4
5.1.2 Reference measurements.....	4
5.1.3 Specimen requirements.....	4
5.1.4 Test execution.....	5
5.2 Gas pycnometer method.....	6
5.2.1 General.....	6
5.2.2 Reference measurements.....	6
5.2.3 Specimen requirements.....	6
5.2.4 Test execution.....	6
6 Test results	7
6.1 Fluid pycnometer method.....	7
6.1.1 Dry mass of specimen.....	7
6.1.2 Density of solid particles.....	7
6.2 Gas pycnometer method.....	8
6.2.1 Dry mass of specimen.....	8
6.2.2 Volume of the specimen.....	8
6.2.3 Density of solid particles.....	9
7 Test report	9
Annex A (normative) Calibration, maintenance, and checks	10
Bibliography	12

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).

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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](#).

ISO 17892-3 was prepared by the European Committee for standardization (CEN) TC 341 *Geotechnical investigation and testing*, in collaboration with ISO/TC 182 *Geotechnics*, Subcommittee SC 1 *Geotechnical investigation and testing*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This second edition cancels and replaces the first edition (ISO/TS 17892-3:2004), which has been technically revised. It also incorporates the Technical Corrigendum ISO/TS 17892-3:2004/Cor.1:2006.

ISO 17892 consists of the following parts, under the general title *Geotechnical investigation and testing* — *Laboratory testing of soil*:

- *Part 1: Determination of water content*
- *Part 2: Determination of bulk density*
- *Part 3: Determination of particle density*
- *Part 4: Determination of particle size distribution*
- *Part 5: Incremental loading oedometer test*
- *Part 6: Fall cone test*
- *Part 7: Unconfined compression test*
- *Part 8: Unconsolidated undrained triaxial test*
- *Part 9: Consolidated triaxial compression tests*
- *Part 10: Direct shear tests*
- *Part 11: Permeability tests*
- *Part 12: Determination of liquid and plastic limits*

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Introduction

This part of ISO 17892 covers areas in the international field of geotechnical engineering never previously standardized internationally. It is intended that this part of ISO 17892 presents broad good practice and significant differences with national documents is not anticipated. It is based on international practice (see Reference [1]).