

Geotechnical investigation and testing - Laboratory testing of soil - Part 12: Determination of liquid and plastic limits (ISO 17892-12:2018 + ISO 17892-12:2018/Amd 1:2021 + ISO 17892-12:2018/Amd 2:2022)

EESTI STANDARDI EESSÕNA**NATIONAL FOREWORD**

See Eesti standard EVS-EN ISO 17892-12:2018+A1+A2:2022 sisaldab Euroopa standardi EN ISO 17892-12:2018 ja selle muudatuste A1:2021 ja A2:2022 ingliskeelset teksti.	This Estonian standard EVS-EN ISO 17892-12:2018+A1+A2:2022 consists of the English text of the European standard EN ISO 17892-12:2018 and its amendments A1:2021 and A2:2022.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas. Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 11.07.2018, muudatused A1 08.09.2021 ja A2 16.03.2022.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation and Accreditation. Date of Availability of the European standard is 11.07.2018, for A1 08.09.2021 and A2 16.03.2022.
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ICS 13.080.20; 93.020

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English Version

**Geotechnical investigation and testing - Laboratory testing
of soil - Part 12: Determination of liquid and plastic limits
(ISO 17892-12:2018 + ISO 17892-12:2018/Amd 1:2021 +
ISO 17892-12:2018/Amd 2:2022)**

Reconnaissance et essais géotechniques - Essais de
laboratoire sur les sols - Partie 12: Détermination des
limites de liquidité et de plasticité (ISO 17892-12:2018
+ ISO 17892-12:2018/Amd 1:2021 + ISO 17892-
12:2018/Amd 2:2022)

Geotechnische Erkundung und Untersuchung -
Laborversuche an Bodenproben - Teil 12: Bestimmung
der Zustandsgrenzen (ISO 17892-12:2018 + ISO
17892-12:2018/Amd 1:2021 + ISO 17892-
12:2018/Amd 2:2022)

This European Standard was approved by CEN on 15 June 2018. Amendment A1 was approved by CEN on 21 July 2021. Amendment A2 was approved by CEN on 1 February 2022.

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COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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This document (EN ISO 17892-12:2018) has been prepared by Technical Committee ISO/TC 182 "Geotechnics" in collaboration with Technical Committee CEN/TC 341 "Geotechnical Investigation and Testing" the secretariat of which is held by BSI.

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 January 2019, and conflicting national standards shall be withdrawn at the latest by January 2019.

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Endorsement notice

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Amendment A1 European foreword

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A2 Amendment A2 European foreword

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Endorsement notice

The text of ISO 17892-12:2018/Amd 2:2022 has been approved by CEN as EN ISO 17892-12:2018/A2:2022 without any modification. **A2**

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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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This first edition of ISO 17892-12 cancels and replaces ISO/TS 17892-12:2004, which has been technically revised. It also incorporates ISO/TS 17892-12:2004/Cor.1:2006.

A list of all the parts in the ISO 17892 series can be found on the ISO website.

A1 Amendment A1 foreword

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A₂ Amendment A2 foreword

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Introduction

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

This document is a preview generated by EVS

Geotechnical investigation and testing — Laboratory testing of soil —

Part 12: Determination of liquid and plastic limits

1 Scope

This document specifies methods for the determination of the liquid and plastic limits of a soil. These comprise two of the Atterberg limits for soils.

The liquid limit is the water content at which a soil changes from the liquid to the plastic state.

This document describes the determination of the liquid limit of a specimen of natural soil, or of a specimen of soil from which material larger than about 0,4 mm has been removed. This document describes two methods: the fall cone method and the Casagrande method.

NOTE The fall cone method in this document should not be confused with that of ISO 17892-6.

The plastic limit of a soil is the water content at which a soil ceases to be plastic when dried further.

The determination of the plastic limit is normally made in conjunction with the determination of the liquid limit. It is recognized that the results of the test are subject to the judgement of the operator, and that some variability in results will occur.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 3310-1, *Test sieves — Technical requirements and testing — Part 1: Test sieves of metal wire cloth*

ISO 14688-1, *Geotechnical investigation and testing — Identification and classification of soil — Part 1: Identification and description*

ISO 17892-1, *Geotechnical investigation and testing — Laboratory testing of soil — Part 1: Determination of water content*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply. ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <https://www.electropedia.org/>
- ISO Online browsing platform: available at <https://www.iso.org/obp>