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Earthworks - Geotechnical laboratory tests - Part 1: Degradability test standard

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

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English Version

Earthworks - Geotechnical laboratory tests - Part 1: Degradability test standard

Terrassements - Essais géotechniques en laboratoire - Partie 1 : Essai de dégradabilité

Erdarbeiten - Geotechnische Laborversuche - Teil 1: Prüfung der Abbaubarkeit

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European foreword

This document (EN 17542-1:2022) has been prepared by Technical Committee CEN/TC 396 “Earthworks”, the secretariat of which is held by AFNOR.

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of an identical text or by endorsement, at the latest by December 2022, and conflicting national standards shall be withdrawn at the latest by December 2022.

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Introduction

The degradability coefficient I_{DG} is an identification parameter adopted in the classification of materials for earthworks (EN 16907-2). This document refers to two methods to define the degradability behaviour, designated as French and Spanish methods in EN 16907-2. Those two methods are described as Method A and Method B, respectively.

1 Scope

This document defines the principle and the methods for the determination of the “degradability coefficient” of rocky material.

The degradability coefficient I_{DG} distinguishes the behaviour of certain rocky material and is used to show the change in the geotechnical characteristics (particle size, clay content, plasticity, etc.) in relation to the characteristics seen immediately following excavation.

Changes in the particle size occur due to the combined action of climatic or geohydrological elements (frost, soaking-drying cycles) and mechanical stress to which it is subjected. In the case of degradable rocky material, this leads to a fairly significant and continuous reduction in the mechanical and geometric characteristics of the works in which they are used.

The two methods developed in this document for the determination of I_{DG} are not equivalent. The results obtained by this document refer to the method used.

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.

EN 16907-2, *Earthworks — Part 2: Classification of materials*

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

ISO 3310-2, *Test sieves — Technical requirements and testing — Part 2: Test sieves of perforated metal plate*

EN ISO 17892-4, *Geotechnical investigation and testing — Laboratory testing of soil — Part 4: Determination of particle size distribution*