TECHNICAL SPECIFICATION

SPÉCIFICATION TECHNIQUE

TECHNISCHE SPEZIFIKATION

CEN/TS 17693-2

December 2021

ICS 13.080.99; 93.020

English Version

Earthworks - Soil treatment tests - Part 2: Test of evaluation of the aptitude of a dry material to emit dust

Terrassements - Essais de traitement de sol - Partie 2 : Test d'évaluation de l'aptitude d'un matériau sec à émettre de la poussière

Erdarbeiten - Prüfungen zur Bodenbehandlung - Teil 2: Prüfung zur Bewertung der Staubemissionsfähigkeit eines trockenen Materials

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EUROPEAN COMMITTEE FOR STANDARDIZATION
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European foreword

This document (CEN/TS 17693-2:2021) has been prepared by Technical Committee CEN/TC 396 "Earthworks", the secretariat of which is held by AFNOR.

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Introduction

This document describes a laboratory test method making it possible to determine the aptitude of a material coming from a dry mineral treatment, to emit dust at the time of various stages during an operation of soil treatment for earthworks (stocking and destocking of the product on jobsite, spreading, mixing).

The Index of dust emission (I_{DE}) determined by this laboratory test is not directly comparable to the real rate of dust emitted on the jobsite.

1 Scope

This document describes the reference method for the determination of the Index of dust emission (I_{DE}) in soil treatment for earthworks.

This test concerns more particularly:

— limes in conformity with EN 459-1, *Building lime - Part 1: Definitions, specifications and conformity criteria*;

— cements in conformity with EN 197-1, *Cement - Part 1: Composition, specifications and conformity criteria for common cements*;

— road binders in conformity with EN 13282-1, *Hydraulic road binders - Part 1: Rapid hardening hydraulic road binders - Composition, specifications and conformity criteria*;

— road binders in conformity with EN 13282-2, *Hydraulic road binders - Part 2: Normal hardening hydraulic road binders - Composition, specifications and conformity criteria*;

— fly ashes in conformity with EN 14227-4, *Hydraulically bound mixtures - Specifications – Part 4: Fly ash for hydraulically bound mixtures*;

— siliceous fly ashes in conformity with EN 450-1, *Fly ash for concrete - Part 1: Definition, specifications and conformity criteria*;

— ground-granulated blastfurnace slag in conformity with EN 15167-1, *Ground granulated blast furnace slag for use in concrete, mortar and grout - Part 1: Definitions, specifications and conformity criteria*.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

No terms and definitions are listed in this document.

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

4 Abbreviations and symbols

Symbols for quantities

I_{DE}	Index of dust emission	dimensionless (%)
m_1	initial mass of the sample put on the sieve and submitted for testing	g
m_2	remaining mass of the sample on the sieve at the end of the test	g