

SLOVENSKI STANDARD oSIST prEN 15051-3:2011

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Izpostavljenost na delovnem mestu - Meritve prašnosti razsutih materialov - 3. del: Metoda trajnega padanja

Workplace exposure - Measurement of the dustiness of bulk materials - Part 3: Continuous drop method

Exposition am Arbeitsplatz - Messung des Staubungsverhaltens von Schüttgütern - Teil 3: Verfahren mit kontinuierlichem Fall

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ICS 13.040.30

Will supersede EN 15051:2006

English Version

Workplace exposure - Measurement of the dustiness of bulk materials - Part 3: Continuous drop method

This draft European Standard is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 137.

If this draft becomes a European Standard, CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

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Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

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Foreword

This document (prEN 15051-3:2011) has been prepared by Technical Committee CEN/TC 137 "Assessment of workplace exposure to chemical and biological agents", the secretariat of which is held by DIN.

This document is currently submitted to the CEN Enquiry.

This document, together with prEN 15051-1 and prEN 15051-2 will supersede EN 15051:2006.

The major technical changes between this European Standard and the previous edition are as follows:

- a) EN 15051 has been split into three parts (see below);
- b) the test methods given are no longer referred as reference test methods;
- c) the test of equivalence between an alternative (candidate) test method and any of the test methods now given in part 2 and this part 3 of EN 15051 has been deleted.

EN 15051 Workplace exposure – Measurement of dustiness of bulk materials consists of the following parts:

- Part 1: Requirements and choice of test methods;
- Part 2: Rotating drum method;
- Part 3: Continuous drop method.

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prEN 15051-3:2011 (E)

Introduction

This document is part 3 of a three part European Standard on the dustiness of bulk materials. More specifically this part 3 of EN 15051 gives details of the design and operation of the continuous drop test method that classifies the dustiness of solid bulk materials, in terms of health-related fractions.

A dustiness classification is presented to provide users (e.g. manufacturers, producers, occupational hygienists and workers) with information on the potential for dust emissions when the bulk material is handled or processed in workplaces. It provides the manufacturers of bulk materials with information that can help to improve their products. It allows the users of the bulk materials to assess the effects of pre-treatments, and also to select less dusty products, if available. It is envisaged that different branches of industry might develop their own classification schemes using experimentally determined dustiness values of the bulk materials of interest.

Although this document does not discuss the analysis of dust released from bulk materials (except in terms of health-related fractions), the test method produces samples with the potential for chemical analysis of the contents.

This document was developed based on the results of the European project SMT4-CT96-2074 "Development of a Method for Dustiness Testing" (see [1]). This project investigated the dustiness of 12 bulk materials, with the intention to test as wide a range of bulk materials as possible, i.e. magnitude of dustiness, industrial sectors, chemical composition and particle size distribution. Meanwhile the method has been applied to investigate the dustiness of more than 500 different bulk materials (see [2]).

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