



SLOVENSKI STANDARD
oSIST prEN 15051-2:2011
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**Izpostavljenost na delovnem mestu - Meritve prašnosti razsutih materialov - 2. del:
Metoda z vrtečim bobnom**

Workplace exposure - Measurement of the dustiness of bulk materials - Part 2: Rotating drum method

Exposition am Arbeitsplatz - Messung des Staubungsverhaltens von Schüttgütern - Teil 2: Verfahren mit rotierender Trommel

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13.040.30 Kakovost zraka na delovnem mestu Workplace atmospheres
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English Version

Workplace exposure - Measurement of the dustiness of bulk materials - Part 2: Rotating drum method

Atmosphères des lieux de travail - Mesurage du pouvoir de resuspension des matériaux pulvérulents en vrac - Partie 2: Méthode du tambour rotatif

Exposition am Arbeitsplatz - Messung des Staubungsverhaltens von Schüttgütern - Teil 2: Verfahren mit rotierender Trommel

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.

This draft European Standard was established by CEN in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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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 15051-2:2011) 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 15051-3 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 in 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 this part 2 and 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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Introduction

This document is part 2 of a three part European Standard on the dustiness of bulk materials. More specifically this part 2 of EN 15051 gives details of the design and operation of the rotating drum 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 values of more than 220 different bulk materials.

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