



SLOVENSKI STANDARD

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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

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

Ta slovenski standard je istoveten z: **EN 15051-2:2025**

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ICS:

13.040.30 Kakovost zraka na delovnem mestu Workplace atmospheres

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EUROPEAN STANDARD
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English Version

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

Exposition sur les 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 European Standard was approved by CEN on 26 October 2025.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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

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European foreword

This document (EN 15051-2:2025) 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 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of an identical text or by endorsement, at the latest by June 2026, and conflicting national standards shall be withdrawn at the latest by June 2026.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 15051-2:2013+A1:2016.

EN 15051-2:2025 includes the following significant technical changes with respect to EN 15051-2:2013+A1:2016:

- the introduction was revised to better explain the purpose of dustiness testing;
- 4.2.2: Inclusion of conditioning specifications for standard testing and inter-comparison in addition to as received testing;
- 4.3: Change in the tolerance of relative humidity (RH): Previously, RH was specified at $(50 \pm 10) \% \text{ RH}$; now, it is specified at $(50 \pm 5) \%$;
- 4.8: Introduction of an in-house or test powder of relatively high dustiness for quality purpose and to ensure reproducibility in testing;
- 5.7: Change in the minimum of repeat tests to be carried out from three to five and specify procedure for reporting results based on the relative standard deviation.
- 5.10: Limit of detection (LOD) and limit of quantification (LOQ) has been added for the determination and reporting of LOD and LOQ of the weighing of the filters, and the 80 ppi and 20 ppi foams;
- Clause 6: In Table 1, the respirable dustiness mass fraction ($w_{R,A}$) upper limit for the very low dustiness category has been changed from $< 10 \text{ mg/m}^3$ to $< 20 \text{ mg/kg}$. As a result, the low category has been revised from $(10 \text{ to } 60) \text{ mg/m}^3$ to $(20 \text{ to } 60) \text{ mg/m}^3$;
- Annex A: Flow rate and leak check, which is normative, has been added. It provides a procedure to check, evaluate and report the flow rate and potential leaks through the rotating drum;
- Annex B (informative) for the quality control of metal foams has been added;
- Annex C (informative) provides a test to identify outliers amongst values obtained from repeat tests;
- Annex D (informative) provides an example of a procedure to evaluate the LOD and LOQ for gravimetric filters and foams.

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

- *Part 1: Requirements and choice of test methods;*
- *Part 2: Rotating drum method;*