

# DIN EN 15051-2:2026-02 (E)

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

---

<b>Contents</b>		<b>Page</b>
European foreword .....		3
Introduction .....		5
1	Scope .....	6
2	Normative references .....	6
3	Terms and definitions .....	6
4	Requirements .....	7
4.1	General .....	7
4.2	Conditioning of the bulk material .....	7
4.2.1	As-received condition .....	7
4.2.2	Conditioning specifications .....	8
4.3	Sample and environmental control .....	8
4.4	Moisture content .....	8
4.5	Bulk density .....	8
4.6	Test procedure .....	8
4.7	Replicate tests .....	8
4.8	In-house test powder .....	8
5	Rotating drum method .....	9
5.1	Description of test apparatus .....	9
5.2	Particle size-selective foams .....	12
5.3	Sampling filters .....	12
5.4	Ancillary equipment .....	13
5.5	Preparation of test sample .....	13
5.6	Preparation of test apparatus .....	13
5.7	Running the test apparatus .....	13
5.8	Weighing the foams and sampling filters .....	14
5.9	Determination of the inhalable, thoracic and respirable dustiness mass fractions .....	15
5.10	Limit of detection (LOD) and limit of quantification (LOQ) .....	16
6	Evaluation of dustiness .....	17
7	Test report .....	17
Annex A (normative) Flow rate and leak checks of the rotating drum .....		19
Annex B (informative) Characteristics of metal foams .....		20
B.1	General .....	20
B.2	Structure .....	20
B.3	Pore size .....	21
B.4	Chemical composition .....	21
B.5	Cell diameter .....	22
Annex C (informative) Test to identify outliers amongst values obtained from repeat tests .....		23
Annex D (informative) LOD and LOQ procedure for gravimetric sampling filters and foams .....		25
Bibliography .....		29