

DIN EN 17199-3:2019-12 (E)

Workplace exposure - Measurement of dustiness of bulk materials that contain or release respirable NOAA or other respirable particles - Part 3: Continuous drop method

Contents		Page
European foreword		3
Introduction		4
1	Scope	5
2	Normative references	5
3	Terms and definitions	6
4	Symbols and abbreviations	6
5	Principle	6
6	Equipment	8
6.1	General	8
6.2	Test apparatus	9
7	Requirements	11
7.1	General	11
7.2	Engineering control measures	11
7.3	Conditioning of the test material	11
7.4	Conditioning of the test equipment	12
8	Preparation	12
8.1	Test sample	12
8.2	Moisture content of the test material	12
8.3	Bulk density of the test material	12
8.4	Sampling for analytical or imaging purposes	12
8.5	Preparation of test apparatus	12
9	Test procedure	13
10	Evaluation of data	15
10.1	Respirable dustiness mass fraction	15
10.2	Number-based dustiness index	15
10.3	Number-based emission rate	16
10.4	Additional results of the tests	16
10.5	Morphology and chemical characterization of the particles	16
11	Test report	17
Annex A (informative) Description and characteristic properties of the continuous drop method		18
A.1	General	18
A.2	Energy input and dust developing procedure	18
A.3	Analytical methods and results	19
Annex B (informative) Illustration of an experimental CDD set-up example		20
Bibliography		24