Product Specification

DIN EN 15051-2 Exposition am Arbeitsplatz - Messung des Staubungsverhaltens von Schüttgütern

TÜV NORD Systems GmbH &

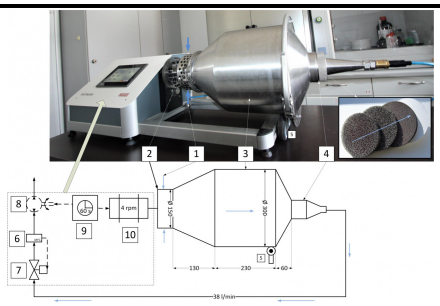
Co. KG

Plant & Product Safety

Refrigeration & Air Quality

Am TÜV 1

45307 Essen, Germany



1. General description:

For further informations click the link below:

Partikel- und Faseranalytik | DMT GROUP (dmt-group.com)

d = 30 cm	n = 4 min^{-1}
t = 60 s	V□ = 38 l/min

Initially, 35 cm3 of sample is used. The discharged particles are collected using three particle size-selective metal foams and an absolute filter. The first two metal foams are identical. The duplication is normatively anchored and serves the purpose of manageability. Within this standard, the following table can be found for classifying the obtained results.

Classes:	**very low**	**low**	**moderate**	**high**
Dustiness of inhalable dust, $w_{I,A}$ mg kg^{-1}	< 300	300 to 650	> 650 to 3000	> 3000
Dustiness of thoracic dust, $w_{T,A}$ mg kg^{-1}	< 80	80 to 300	> 300 to 1000	> 1000
Dustiness of respirable dust, $w_{R,A}$ mg kg^{-1}	< 10	10 to 60	> 60 to 210	> 210

Figure 1: Basis for evaluating the results. Taken from DIN EN 15051-2

1. Air flow
2. Inlet unit (protective filter)
3. Dust generation unit - rotating drum
4. Outlet unit / sampling system (two particle size-selective filter foams and an absolute filter)
5. Roller
6. Inline mass flow meter
7. Control valve
8. Vacuum pump
9. Timer
10. Drive motor