

NIOSH Manual of Analytical Methods (NMAM), 5th Edition

Chapter AD: Quantification of Airborne Dusts from Powders

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Newly released NMAM Chapter AD

A new NMAM guidance chapter
on Quantification of Airborne
Dusts From Powders



Introduction

If powders become airborne as a dust within the workplace, they may pose significant health or safety implications. The relative ease or propensity with which a powder becomes airborne from an external stimulus may be quantified or measured. This attribute may be defined by the term dustiness.

This chapter can serve as a helpful guide for industrial and occupational hygienists, safety professionals, environmental health and safety (EHS) managers, EHS investigators, product manufacturers, process engineers, and scientific instrument or equipment manufacturers. This guidance may also be useful to labs focusing on analytical, powder characterization, and process safety. Professionals may find this information helpful both in exploring the value of dustiness testing and in selecting the most appropriate test method for their application.

This chapter briefly discusses how dustiness information may be used to develop low-dust products, inform exposure estimation, and execute risk mitigation, for example, through control banding. The content covers the development of test systems for quantifying dust release from bulk-powdered solids. The various test configurations are categorized according to their underlying dust generation mechanisms: gravity-induced, rotating, fluidization, and aerodynamic. The historical development of the more widely used and standardized test systems is also covered. This information highlights the multiple steps (in some instances) taken to develop and standardize test methods, making this information more readily accessible to the reader. Finally, criteria that need to be considered to evaluate or improve existing test methods or to develop new methods are described, particularly with respect to workplace inhalation exposures.

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