

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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Table of Contents Methods Nmam Edition Niosh Analytical Manual 5th

1. Understanding the eBook Methods Nmam Edition Niosh Analytical Manual 5th
 - The Rise of Digital Reading Methods Nmam Edition Niosh Analytical Manual 5th
 - Advantages of eBooks Over Traditional Books
2. Identifying Methods Nmam Edition Niosh Analytical Manual 5th
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Methods Nmam Edition Niosh Analytical Manual 5th
 - User-Friendly Interface
4. Exploring eBook Recommendations from Methods Nmam Edition Niosh Analytical Manual 5th
 - Personalized Recommendations
 - Methods Nmam Edition Niosh Analytical Manual 5th User Reviews and Ratings
 - Methods Nmam Edition Niosh Analytical Manual 5th and Bestseller Lists
5. Accessing Methods Nmam Edition Niosh Analytical Manual 5th Free and Paid eBooks

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- Methods Nmam Edition Niosh Analytical Manual 5th Budget-Friendly Options
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 - Methods Nmam Edition Niosh Analytical Manual 5th Compatibility with Devices
 - Methods Nmam Edition Niosh Analytical Manual 5th Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Methods Nmam Edition Niosh Analytical Manual 5th
 - Highlighting and Note-Taking Methods Nmam Edition Niosh Analytical Manual 5th
 - Interactive Elements Methods Nmam Edition Niosh Analytical Manual 5th
- 8. Staying Engaged with Methods Nmam Edition Niosh Analytical Manual 5th
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Methods Nmam Edition Niosh Analytical Manual 5th
- 9. Balancing eBooks and Physical Books Methods Nmam Edition Niosh Analytical Manual 5th
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Methods Nmam Edition Niosh Analytical Manual 5th
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Methods Nmam Edition Niosh Analytical Manual 5th
 - Setting Reading Goals Methods Nmam Edition Niosh Analytical Manual 5th
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Methods Nmam Edition Niosh Analytical Manual 5th
 - Fact-Checking eBook Content of Methods Nmam Edition Niosh Analytical Manual 5th
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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