



Designation: **D6128–06** **D6128 – 14**

Standard Test Method for Shear Testing of Bulk Solids Using the Jenike Shear Cell¹

This standard is issued under the fixed designation D6128; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last approval. A superscript letter (a) indicates an editorial change since the last revision or approval.

1. Scope²

1.1 This method ³covers the apparatus and procedures for measuring the cohesive strength of bulk solids during both continuous flow and after storage at rest. In addition, measurements of internal friction, bulk density, and wall friction on various wall surfaces are included.

1.2 This standard is not applicable to testing bulk solids that do not reach the steady state requirement within the travel limit of the shear cell. It is impossible/difficult to classify ahead of time which bulk solids cannot be tested, but one example may be those consisting of highly elastic particles.

1.3 The values stated in SI units are to be regarded as standard.

1.3 The most common use of this information is in the design of storage bins and hoppers to prevent flow stoppages due to arching and ratholing, including the slope and smoothness of hopper walls to provide mass flow. Parameters for structural design of such equipment also may be derived from this data.

1.4 All observed and calculated values shall conform to the guidelines for significant digits and rounding established in Practice **D6026**.

1.4.1 The procedures used to specify how data are collected/recorded or calculated, in this standard are regarded as the industry standard. In addition, they are representative of the significant digits that generally should be retained. The procedures used do not consider material variation, purpose for obtaining the data, special purpose studies, or any considerations for the user's objectives and it is common practice to increase or reduce significant digits of reported data to be commensurate with these considerations. It is beyond the scope of this standard to consider significant digits used in analysis methods for engineering design.

1.5 *Units*—The values stated in SI units are to be regarded as standard. No other units of measure are included in this standard.

1.6 *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.*

2. Referenced Documents

2.1 *ASTM Standards:*⁴

D653 Terminology Relating to Soil, Rock, and Contained Fluids

D2236 Test Methods for Laboratory Determination of Water (Moisture) Content of Soil and Rock by Mass

D3740 Practice for Minimum Requirements for Agencies Engaged in Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction

D6026 Practice for Using Significant Digits in Geotechnical Data

3. Terminology

3.1 *Definitions:*

3.1.1 Definitions of terms used in this test method are in accordance with Terminology **D653**.

3.1.2 *cellular rest*, *n*—a static wall friction test with time consolidation.

¹ This testing method is under the jurisdiction of ASTM Committee **D18** on Soil and Rock and is the direct responsibility of Subcommittee **D18.24** on Characterization and Handling of Powders and Bulk Solids.

Current edition approved Dec. 4, 2004; approved January 2014. Published January 2004. Originally approved in 1997. Last previous edition approved in 2006 as **D6128–06** **D6128 – 06**, DOI: 10.1520/D6128-06.10.1520/D6128-14.

² This test method is based on the "Standard Shear Testing Techniques for Particulate Solids Using the Jenike Shear Cell," a report of the EPSC Working Party on the Mechanics of Particulate Solids. Copyright is held by the Institution of Chemical Engineers and the European Federation of Chemical Engineering.

³ For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For Annual Book of ASTM Standards volume information, refer to the standard's Document Summary page on the ASTM website.

Standard Shear Testing Technique For Particulate Solids Using The Jenike Shear Cell

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Standard Shear Testing Technique For Particulate Solids Using The Jenike Shear Cell:

Standard Shear Testing Technique for Particulate Solids Using the Jenike Shear Cell EFCE Working Party on the Mechanics of Particulate Solids,1989 Standard shear testing technique for particulate solids using the Jenike shear cell European Federation of Chemical Engineering,2006 Solids Level Measurement and Detection Handbook Joe Lewis,2012-02-21 This is a comprehensive reference on state of the art controls and systems for measuring and monitoring bulk solid materials Solids Level Measurement and Detection Handbook features Definitions of standard terms and overview of typical problems and solutions in automated bulk materials handling In depth coverage of Point Level Detection Technology and Instrumentation In depth coverage of Continuous Level Technology and Instrumentation Explains how automated solids materials can be integrated into inventory management Storing handling and processing of bulk solid materials is fundamental to nearly every manufacturing and processing industry from the food industry and agribusiness to the plastics industry to the mining and cement industries to coal fired electric utilities Automating the handling and processing of solids is rapidly growing but heretofore little has been published on the latest in sensors and controls used in such applications This book is intended to meet that need with full coverage from principles of measuring solid bulk materials to controlling their flow and movement to help with choosing the right equipment for specific applications Nowhere else in the current literature will industrial engineers controls engineers and manufacturing technicians find a better resource on current sensor controls and systems used to automate the handling and process of bulk solid materials Springer Handbook of Mechanical Engineering Karl-Heinrich Grote,Hamid Hefazi,2021-04-10 This resource covers all areas of interest for the practicing engineer as well as for the student at various levels and educational institutions It features the work of authors from all over the world who have contributed their expertise and support the globally working engineer in finding a solution for today s mechanical engineering problems Each subject is discussed in detail and supported by numerous figures and tables *Developing Solid Oral Dosage Forms* Yihong Qiu,Yisheng Chen,Geoff G.Z. Zhang,Lawrence Yu,Rao V. Mantri,2016-11-08 *Developing Solid Oral Dosage Forms* Pharmaceutical Theory and Practice Second Edition illustrates how to develop high quality safe and effective pharmaceutical products by discussing the latest techniques tools and scientific advances in preformulation investigation formulation process design characterization scale up and production operations This book covers the essential principles of physical pharmacy biopharmaceutics and industrial pharmacy and their application to the research and development process of oral dosage forms Chapters have been added combined deleted and completely revised as necessary to produce a comprehensive well organized valuable reference for industry professionals and academics engaged in all aspects of the development process New and important topics include spray drying amorphous solid dispersion using hot melt extrusion modeling and simulation bioequivalence of complex modified released dosage forms biowaivers and much more Written and edited by an international team of leading experts with experience and knowledge

across industry academia and regulatory settings Includes new chapters covering the pharmaceutical applications of surface phenomenon predictive biopharmaceutics and pharmacokinetics the development of formulations for drug discovery support and much more Presents new case studies throughout and a section completely devoted to regulatory aspects including global product regulation and international perspectives

Powders and Bulk Solids Dietmar Schulze,2021-09-02 The book concentrates on powder flow properties their measurement and applications These topics are explained starting from the interactions between individual particles up to the design of silos A wide range of problems are discussed such as flow obstructions segregation and vibrations The goal is to provide a deeper understanding of the powder flow and to show practical solutions

Unit Operations of Particulate Solids Enrique Ortega-Rivas,2016-04-19 Suitable for practicing engineers and engineers in training this book covers the most important operations involving particulate solids Through clear explanations of theoretical principles and practical laboratory exercises the text provides an understanding of the behavior of powders and pulverized systems It also helps readers develop skills for operating optimizing and innovating particle processing technologies and machinery in order to carry out industrial operations The author explores common bulk solids processing operations including milling agglomeration fluidization mixing and solid fluid separation

Particles and Nanoparticles in Pharmaceutical Products Henk G. Merkus,Gabriel M. H. Meesters,Wim Oostra,2018-09-06 This edited volume brings together the expertise of numerous specialists on the topic of particles their physical chemical pharmacological and toxicological characteristics when they are a component of pharmaceutical products and formulations The book discusses in detail properties such as the composition size shape surface properties and porosity of particles with respect to how they impact the formulations and products in which they are used and the effective delivery of pharmaceutical active ingredients It considers all dosage forms of pharmaceuticals involving particles from powders to tablets creams to ointments and solutions to dry powder inhalers also including the latest nanomedicine products Further it discusses examples of particle toxicity as well as the important subject of pharmaceutical industry regulations guidelines and legislation The book is of interest to researchers and practitioners who work on testing and developing pharmaceutical dosage and delivery systems

Dry Scrubbing Technologies for Flue Gas Desulfurization Barbara Toole-O'Neil,Ohio Coal Development Office,2012-12-06 Dry sulfurization processes offer the significant advantages of low capital and low operating costs when compared to wet desulfurization They hold great potential for the economical reduction of sulfur emissions from power utilities that use high sulfur coal Dry Scrubbing Technologies for Flue Gas Desulfurization represents a body of research that was sponsored by the State of Ohio s Coal Development Office for the development of technologies that use coal in an economic environmentally sound manner One of the project s major goals was the development of dry calcium based sorption processes for removing sulfur dioxide from the combustion gases produced by high sulfur coal Dry Scrubbing Technologies for Flue Gas Desulfurization highlights a number of fundamental research findings that have had a significant

and lasting impact in terms of scientific understanding For example the experimental investigation of the upper furnace sulfur capture obtained time resolved kinetic data in less than 100 millisecond time scales for the first time ever thereby revealing the true nature of the ultra fast and overlapping phenomena This was accomplished through the development of a unique entrained flow reactor system The authors also identify a number of important areas for future research including reaction mechanisms sorbent material transport effects modeling and process development Dry Scrubbing Technologies for Flue Gas Desulfurization will appeal to both chemical and environmental engineers who examine different ways to use coal in a more environmentally benign manner It will make an essential reference for air pollution control researchers from coal lime cement and utility industries for government policy makers and environmental regulatory agencies and for those who teach graduate courses in environmental issues pollution control technologies and environmental policy

Bonded Magnets G.C. Hadjipanayis, 2012-12-06 Bonded magnets are the fastest growing sector in the entire market for magnetic materials Their great advantages lie in the cost effective net shape manufacturing process allowing the achievement of complex geometries and their isotropic magnetic properties Energy products have more than quadrupled in recent years too The contributors to this volume present the current and future status of bonded magnets including total world production and distribution the markets involved and the status of current and future applications Current novel processing techniques are described and new developments reported including powder production techniques jet casting melt spinning atomization and DDR processes The different types of bonded magnets reviewed include isotropic and anisotropic neodymium iron boron nanocomposites Sm Fe interstitial nitrides Sm Co and ferrites

Silos C.J. Brown, J. Nielsen, 1998-05-21 Bringing together the leading European expertise in behaviour and design of silos this important new book is an essential reference source for all concerned with current problems and developments in silo technology Silos are used in an enormous range of industries and the handling characteristics of many industrial materials require different approaches

Modern Drying Technology, Volume 2 Evangelos Tsotsas, Arun S. Mujumdar, 2011-02-10 This five volume handbook provides a comprehensive overview of all important aspects of modern drying technology including only cutting edge results Volume 2 comprises experimental methods used in various industries and in research in order to design and control drying processes measure moisture and moisture distributions characterize particulate material and the internal micro structure of dried products and investigate the behavior of particle systems in drying equipment Key topics include acoustic levitation near infrared spectral imaging magnetic resonance imaging X ray tomography and positron emission tracking

Handbook of Food Powders Bhesh Bhandari, Nidhi Bansal, Min Zhang, Pierre Schuck, 2013-08-31 Many food ingredients are supplied in powdered form as reducing water content increases shelf life and aids ease of storage handling and transport Powder technology is therefore of great importance to the food industry The Handbook of food powders explores a variety of processes that are involved in the production of food powders the further processing of these powders and their functional properties Part one introduces

processing and handling technologies for food powders and includes chapters on spray freeze and drum drying powder mixing in the production of food powders and safety issues around food powder production processes Part two focusses on powder properties including surface composition rehydration and techniques to analyse the particle size of food powders Finally part three highlights speciality food powders and includes chapters on dairy powders fruit and vegetable powders and coating foods with powders The Handbook of food powders is a standard reference for professionals in the food powder production and handling industries development and quality control professionals in the food industry using powders in foods and researchers scientists and academics interested in the field Explores the processing and handling technologies in the production of food powders Examines powder properties including surface composition shelf life and techniques used to examine particle size Focusses on speciality powders such as dairy infant formulas powdered egg fruit and vegetable and culinary and speciality products

Handbook of Powder Science & Technology Muhammed Fayed,Lambert Otten,2013-11-27 Since the publication of the first edition of Canada and Australia have increased teach Handbook of Powder Science and Technology ing research and training activities in areas the field of powder science and technology has related to particle science and technology gained broader recognition and its various ar In addition it is worth mentioning the many eas of interest have become more defined and books and monographs that have been pub focused Research and application activities lished on specific areas of particle powder related to particle technology have increased and particle fluid by professional publishers globally in academia industry and research technical societies and university presses Also institutions During the last decade many to date there are many career development groups with various scientific technical and courses given by specialists and universities on engineering backgrounds have been founded various facets of powder science and technol to study apply and promote interest in areas ogy

Annual Book of ASTM Standards ASTM International,American Society for Testing and Materials,2003

Powders and Grains 2005, Two Volume Set R. Garcia-Rojo,H.J. Herrmann,Sean McNamara,2005-07-01 This volume contains the proceedings of the Fifth International Conference on the Micromechanics of Granular Media Powders and Grains 2005 Powders and Grains is an international scientific conference held every 4 years that brings together engineers and physicists interested in the micromechanics of granular media The book is a guide to the hotte

Structures and Granular Solids Jian-Fei Chen,J.Y. Ooi,J.G. Teng,2008-06-23 This volume features 29 invited papers presented at the Royal Society of Edinburgh on 1 2 July 2008 by colleagues collaborators students and friends of Professor J Michael Rotter FREng FRSE FICE FASCE FIStructE FIEAust in honour of his 60th birthday The articles published in this volume will be of great value to readers as it contains con

Characterisation of Bulk Solids Don McGlinchey,2009-02-12 Handling of powders and bulk solids is a critical industrial technology across a broad spectrum of industries from minerals processing to bulk and fine chemicals and the food and pharmaceutical industries yet is rarely found in the curricula of engineering or chemistry departments With contributions from leading authors in their respective fields

Characterisation of Bulk Solids provides the reader with a sound understanding of the techniques importance and application of particulate materials characterisation It covers the fundamental characteristics of individual particles and bulk particulate materials and includes discussion of a wide range of measurement techniques and the use of material characteristics in design and industrial practice The reader will then be in a better position to diagnose solids handling and processing problems in industry and to deal with experts and equipment suppliers from an informed standpoint Written for post graduate engineers chemical scientists and technologists at all stages of their industrial career the book will also serve as an ideal primer in any of the specialist areas to inform further study **Pharmaceutical Dosage Forms - Tablets** Larry L. Augsburger, Stephen W. Hoag, 2016-04-19

The ultimate goal of drug product development is to design a system that maximizes the therapeutic potential of the drug substance and facilitates its access to patients **Pharmaceutical Dosage Forms Tablets Third Edition** is a comprehensive resource of the design formulation manufacture and evaluation of the tablet dosage form an Densification Impact On Raw, Chemically And Thermally Pretreated Biomass: Physical Properties And Biofuels Production Jaya Shankar Tumuluru, 2023-05-29 First generation ethanol plants did not have many operational challenges as the feedstocks e g corn used for fuel production are dense stable storable and shippable commodity type products with fewer conversion challenges These feedstock properties led the first generation large scale biorefineries to grow exponentially In the second generation biofuels the feedstocks used are agricultural and forest residues dedicated energy crops industrial wastes and municipal solid waste When the industry tested these feedstocks for biofuel production they faced flowability storage transportation and conversion issues One way to overcome some of the feeding handling transportation and variable moisture challenges is to densify the biomass Pellet mills and briquette presses are commonly used to produce densified products The densified products have uniform size shape higher bulk density and better downstream conversion performance Also the densified products are aerobically stable and can be stored for longer durations without any loss in quality This book s focus is on understanding how the densification process variables biomass types and their blends mechanical preprocessing and thermal and chemical pretreatment methods impact the quality of the densified products produced for biofuel production Finally the book also explores the conversion performance of densified biomass for biofuel production

Reviewing **Standard Shear Testing Technique For Particulate Solids Using The Jenike Shear Cell**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Standard Shear Testing Technique For Particulate Solids Using The Jenike Shear Cell**," an enthralling opus penned by a very acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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Standard Shear Testing Technique For Particulate Solids Using The Jenike Shear Cell Introduction

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