



Standard Test Methods for Measuring Adhesion by Tape Test¹

This standard is issued under the fixed designation D3359; 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 reapproval. A superscript epsilon (ϵ) indicates an editorial change since the last revision or reapproval.

^a NOTE—Footnote 3 and 3.2 were corrected editorially in June 2009.

² NOTE—Footnote 3 and 3.2 were corrected editorially and moved into Note 4 in 3.3 in July 2010.

1. Scope*

1.1 These test methods cover procedures for assessing the adhesion of coating films to metallic substrates by applying and removing pressure-sensitive tape over cuts made in the film.

Note 1—This test method has been reported being used to measure adhesion of organic coatings on soft substrates (for example, wood and plastic). Issues with plastic substrates are noted in [Appendix X1](#). A similar test method, ISO 2409, permits tests on soft substrates (for example, wood and plaster). Precision and bias data on the latter is lacking. Test Methods D3359 was developed with metal as the substrate and, in the absence of supporting precision and bias data, is so limited.

1.2 Test Method A is primarily intended for use at job sites while Test Method B is more suitable for use in the laboratory. Also, Test Method B is not considered suitable for films thicker than 5 mils (125µm).

Note 2—Subject to agreement between the purchaser and the seller, Test Method B can be used for thicker films if wider spaced cuts are employed.

1.3 These test methods are used to establish whether the adhesion of a coating to a substrate is at a generally adequate level. They do not distinguish between higher levels of adhesion for which more sophisticated methods of measurement are required.

Note 3—It should be recognized that differences in adhesibility of the coating surface can affect the results obtained with coatings having the same inherent adhesion.

1.4 This test method is similar in content (but not technically equivalent) to ISO 2409.

1.5 In multicoat systems adhesion failure may occur between coats so that the adhesion of the coating system to the substrate is not determined.

1.6 The values stated in SI units are to be regarded as the standard. The values given in parentheses are for information only.

1.7 *This standard does not purport to address 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:²

- [D609](#) Practice for Preparation of Cold-Rolled Steel Panels for Testing Paint, Varnish, Conversion Coatings, and Related Coating Products
- [D823](#) Practices for Producing Films of Uniform Thickness of Paint, Varnish, and Related Products on Test Panels
- [D1000](#) Test Methods for Pressure-Sensitive Adhesive-Coated Tapes Used for Electrical and Electronic Applications
- [D1730](#) Practices for Preparation of Aluminum and Aluminum-Alloy Surfaces for Painting
- [D2092](#) Guide for Preparation of Zinc-Coated (Galvanized) Steel Surfaces for Painting (Withdrawn 2008)³
- [D2370](#) Test Method for Tensile Properties of Organic Coatings
- [D3330/D3330M](#) Test Method for Peel Adhesion of Pressure-Sensitive Tape
- [D3924](#) Specification for Environment for Conditioning and Testing Paint, Varnish, Lacquer, and Related Materials
- [D4060](#) Test Method for Abrasion Resistance of Organic Coatings by the Taber Abraser

* These test methods are under the jurisdiction of ASTM Committee D01 on Paint and Related Coatings, Materials, and Applications and are the direct responsibility of Subcommittee D01.23 on Physical Properties of Applied Paint Films.

Current edition approved June 1, 2009. Published June 2009. Originally approved in 1974. Last previous edition approved in 2005 as D3359 – 05. DOI: 10.1520/D3359-09002.

¹ 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.

² The last approved version of this historical standard is referenced on www.astm.org.

^a A Summary of Changes section appears at the end of this standard.

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Ying Liu



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ASTM D3359-09E2 ,2009 **Handbook for Concrete and Cement** United States. Army. Corps of Engineers,1994
Coatings for Corrosion Protection Charles Smith,2005 **Maintenance Issues and Alternate Corrosion Protection**
Methods for Exposed Bridge Steel Tom W. Neal,National Cooperative Highway Research Program,1998 This synthesis will be of interest to state department of transportation DOT bridge maintenance engineers coating specialists chemists and researchers Manufacturers and suppliers of corrosion protection products and systems for exposed structural steel on existing bridges will also find it of interest This synthesis describes current practice regarding maintenance and protection strategies for exposed structural steel on existing bridges NCHRP Synthesis 251 Lead Based Paint Removal for Steel Highway Bridges 1997 provides a complementary and more in depth treatment of maintenance issues involving lead based paint removal This report of the Transportation Research Board defines the maintenance management systems and decision making criteria used by transportation agencies for maintaining exposed bridge steel Material selection criteria surface preparation and application practices quality control and quality assurance programs and funding mechanisms are discussed in detail The impact of recent and proposed environmental and worker protection regulations on current practice is reported Information for the synthesis was collected by surveying state transportation agencies and by conducting a literature search Responses to the survey Appendix C to this document are published on the Internet as NCHRP Web Document 11 **NIST Special Publication** ,2005 **UV Curable Coatings Generic Testing & Quality Assurance Protocol** , **Corrosion Control in the Oil and Gas Industry** Sankara Papavinasam,2013-10-15 The effect of corrosion in the oil industry leads to the failure of parts This failure results in shutting down the plant to clean the facility The annual cost of corrosion to the oil and gas industry in the United States alone is estimated at 27 billion According to NACE International leading some to estimate the global annual cost to the oil and gas industry as exceeding 60 billion In addition corrosion commonly causes serious environmental problems such as spills and releases An essential resource for all those who are involved in the corrosion management of oil and gas infrastructure Corrosion Control in the Oil and Gas Industry provides engineers and designers with the tools and methods to design and implement comprehensive corrosion management programs for oil and gas infrastructures The book addresses all segments of the industry including production transmission storage refining and distribution Selects cost effective methods to control corrosion Quantitatively measures and estimates corrosion rates Treats oil and gas infrastructures as systems in order to avoid the impacts that changes to one segment if a corrosion management program may have on others Provides a gateway to more than 1 000 industry best practices and international standards
 Handbook of Environmental Degradation of Materials Myer Kutz,2018-06-15 The Handbook of Environmental Degradation of Materials Third Edition explains how to measure analyze and control environmental degradation for a wide range of industrial materials including metals polymers ceramics concrete wood and textiles exposed to environmental

factors such as weather seawater and fire This updated edition divides the material into four new sections Analysis and Testing Types of Degradation Protective Measures and Surface Engineering then concluding with Case Studies New chapters include topics on Hydrogen Permeation and Hydrogen Induced Cracking Weathering of Plastics the Environmental Degradation of Ceramics and Advanced Materials Antimicrobial Layers Coatings and the Corrosion of Pipes in Drinking Water Systems Expert contributors to this book provide a wealth of insider knowledge and engineering expertise that complements their explanations and advice Case Studies from areas such as pipelines tankers packaging and chemical processing equipment ensure that the reader understands the practical measures that can be put in place to save money lives and the environment Introduces the reader to the effects of environmental degradation on a wide range of materials including metals plastics concrete wood and textiles Describes the kind of degradation that effects each material and how best to protect it Includes case studies that show how organizations from small consulting firms to corporate giants design and manufacture products that are more resistant to environmental effects

ETV CCEP Powder Coatings Generic Testing & Quality Assurance Protocol , *Handbook for Critical Cleaning* Barbara Kanegsberg,Ed

Kanegsberg,2011-04-04 Applications Processes and Controls is the second volume in the Handbook for Critical Cleaning Second Edition Should you clean your product during manufacturing If so when and how Cleaning is essential for proper performance optimal quality and increased sales Inadequate cleaning of product elements can lead to catastrophic failure of the entire system and serious hazards to individuals and the general public Gain a competitive edge with proven cleaning and contamination control strategies A decade after the bestselling original the Handbook for Critical Cleaning Second Edition helps manufacturers meet today s challenges providing practical information and perspective about cleaning chemistries equipment processes and applications With 90% new or revised chapters plus supplementary online material the handbook has grown into two comprehensive volumes Cleaning Agents and Systems and Applications Processes and Controls Helping manufacturers become more efficient and productive these books Show how to increase profitability and meet both existing and expected product demand Clarify the sea of print and Internet information about cleaning chemistries and techniques Address challenges of performance miniaturization and cost as well as regulatory and supply chain pressures Offer clearly written guidance from the viewpoints of more than 70 leading industry contributors in technical management academic and regulatory disciplines Overview chapters by the editors industry icons Barbara and Ed Kanegsberg meld the different viewpoints and compile and critique the options The result is a complete cohesive balanced perspective that helps manufacturers better select implement and maintain a quality value added cleaning process The second volume Handbook for Critical Cleaning Applications Processes and Controls addresses how to implement validate monitor and maintain a critical cleaning process Topics include cleanrooms materials compatibility worker safety sustainability and environmental constraints The book shows readers how to draw from diverse disciplines including aerospace art conservation electronics

food life sciences military optics and semiconductors to achieve superior productivity

Progress in Adhesion and Adhesives, Volume 2 K. L. Mittal, 2017-06-15 With the ever increasing amount of research being published it is a Herculean task to be fully conversant with the latest research developments in any field and the arena of adhesion and adhesives is no exception Thus topical review articles provide an alternate and very efficient way to stay abreast of the state of the art in many subjects representing the field of adhesion science and adhesives Based on the success and the warm reception accorded to the premier volume in this series Progress in Adhesion and Adhesives containing the review articles published in Volume 2 2014 of the journal Reviews of Adhesion and Adhesives RAA volume 2 comprises 14 review articles published in Volume 4 2016 of RAA The subjects of these 14 reviews fall into the following general areas 1 Surface modification of polymers for a variety of purposes 2 Adhesion aspects in reinforced composites 3 Thin films coatings and their adhesion measurement 4 Bioadhesion and bio implants 5 Adhesives and adhesive joints 6 General adhesion aspects The topics covered include surface modification of natural fibers for reinforced polymer composites adhesion of submicrometer thin metals films surface treatments to modulate bioadhesion hot melt adhesives from renewable resources particulate polymer composites functionally graded adhesively bonded joints fabrication of nano biodevices effects of particulates on contact angles thermal stresses in adhesively bonded joints and ways to mitigate these laser assisted electroless metallization of polymer materials adhesion measurement of coatings on biodevices implants cyanoacrylate adhesives and adhesion of green flame retardant coatings onto polyolefins

Corrosion and conservation of cultural heritage metallic artefacts V. Argyropoulos, S. Boyatzis, M. Giannoulaki, K. Polikreti, 2013-07-31 This chapter discusses the importance of using standards in conservation methodology and practice for cultural heritage CH metals The past general trend in the field is the use of metal industry standards The chapter surveys the relevant scientific publications and concludes that conservation researchers use a variety of these standards adopted by different organisations As a result it can be difficult to compare scientific data for CH metal studies carried out by different laboratories The chapter discusses the necessity to draft new standards for metals specific for CH by examining how three independent researchers had different findings when testing the same coating The role of CEN TC 346 Conservation of Cultural Heritage is also discussed

Engineering Solutions for Sustainability Jeffrey W. Fergus, Brajendra Mishra, Dayan Anderson, Emily Allyn Sarver, Neale R. Neelameggham, 2015-08-06 This book contains a collection of papers presented at Engineering Solutions for Sustainability Materials and Resources II a special symposium organized as part of the TMS 2015 Annual Meeting the strategies for effective use of engineering solutions and the role of the global engineering community Authors share perspectives on the major engineering challenges that face our world today identify discuss and prioritize engineering solution needs and establish how these fit into developing global demand pressures for materials and human resources

Corrosion of Archaeological and Heritage Artefacts EFC 45 Philippe Dillmann, 2017-12-02 This special issue of Corrosion Engineering Science and Technology is dedicated to the study of

corrosion of objects from historical sites The issue contains contributions from the 2009 EUROCORN session on Corrosion of Archaeological and Heritage Artefacts organised by the European Federation of Corrosion's working party and commissioned articles on other key issues The objective is to give the reader a broad understanding of corrosion of ancient materials for the most part metal but also glass Articles shed light on a range of analytical approaches related to the study of the complex systems that make up historical artifacts In order to arrive at an understanding of the nanometric organisation of rust layers and interphases such studies must be approached on a macroscopic scale Techniques used include macrophotography synchrotron radiation and transmission electron microscopy TEM that ensure results that are both exhaustive and representative of particular observations This issue demonstrates the wealth of approaches possible in the study of the corrosion of ancient materials

Emerging Contaminants Aurel Nuro, 2021-05-27 Emerging Contaminants presents the reader with information on classification recent studies and adverse effects on the environment and human health of the main classes of contaminants Emerging contaminants are synthetic or natural compounds and microorganisms produced and used by humans that cause adverse ecological and human health effects when they reach the environment This book is organized into four sections that cover the classification of contaminants and the instrumental techniques used to quantify them recent studies on pesticides antibiotics as an important group of emerging contaminants and studies of different classes of emerging contaminants such as polybrominated diphenyl ethers PBDEs microplastics and others [Handbook for Critical Cleaning, Second Edition - 2 Volume Set](#) Barbara Kanegsberg, Edward Kanegsberg, 2020-01-02 This set consists of two volumes Cleaning Agents and Systems and Applications Processes and Controls Updated expanded re organized and rewritten this two volume handbook covers cleaning processes applications management safety and environmental concerns The editors rigorously examine technical issues cleaning agent options and systems chemical and equipment integration and contamination control as well as cleanliness standards analytical testing process selection implementation and maintenance specific application areas and regulatory issues A collection of international contributors gives the text a global viewpoint Color illustrations video clips and animation are available online to help readers better understand presented material

Practical Guide to Antimicrobial Active Packaging Rafael Gavara, 2015-10-13 Antimicrobial packaging systems are those that beneficially interact with the food or with the surrounding environment inhibiting microorganism growth or reducing their counts to improve the quality and extend the shelf life of industrially produced foods They have undoubtedly become a fully accepted alternative to the direct addition of preservatives to foods with excellent future prospects This book will help develop a working knowledge and understanding of antimicrobial packaging it includes a description of the antimicrobial agents most commonly used and their mechanisms of action the manufacturing methods available to fabricate the active system the critical parameters to make an effective product and the tools to optimise them and the various in vitro and in vivo methods for measuring the goodness of the antimicrobial system for validation purposes The reader will develop

the ability to understand why a specific agent is selected for a particular food product or why a specific polymeric material and manufacturing technology are chosen The reader will also become familiar with the different procedures for improving the activity of the packaging solution that is being developed and ways of testing its efficacy This will accelerate the formulation of the active packaging concept reducing development time with respect to the trial and error processes common in many literature reports Finally it will help to identify the best and most cost effective solutions This volume is intended to be a practical guide to antimicrobial packaging and a quick reference for students and researchers from both academia and industry

Structural Nanocomposites James Njuguna,2013-11-29 Advancements in the nanotechnology industry promise to offer improvements in capabilities across a spectrum of applications This is of immense strategic importance to the high performance sector which has historically leveraged technological advances The use of polymer nanocomposites in structures have several predictable impacts on structural design and applications primarily by providing a safer faster and eventually cheaper transportation in the future This books comprises reviews on the state of the art new research results perspectives of future developments and innovative applications relevant to structural materials engineering structures nanocomposites modelling and simulations and their related application areas

Recent Advances in Manufacturing Processes and Systems Harshit K. Dave,Uday Shanker Dixit,Dumitru Nedelcu,2022-03-03 This book presents select proceedings of 2nd International Conference on Recent Advances in Manufacturing RAM 2021 The book provides insights into the current research trends and development in manufacturing processes The topics covered include conventional and nonconventional manufacturing processes micro and nano manufacturing processes chemical and biochemical manufacturing additive manufacturing smart manufacturing and sustainable and energy efficient manufacturing The contributions presented here are intended to stimulate new research directions in the manufacturing domain This book will be useful for the beginners researchers and professionals working in the area of industrial and production engineering and allied fields

Construction Calculations Manual Sidney M Levy,2011-09-23 The National Institute of Standards and Testing NIST Conversion tables and conversion formulas Calculations and formulas geometry trigonometry and physics in construction Site work Calculations relating to concrete and masonry Calculating the size weight of structural steel and miscellaneous metals Lumber calculations to select framing and trim materials Fasteners for wood and steel calculations for selection Calculations to determine the effectiveness and control of thermal and sound transmission Interior finishes Plumbing and HVAC calculations Electrical formulas and calculations

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