

Metallic coatings on metallic substrates — Electrodeposited and chemically deposited coatings — Review of methods available for testing adhesion

1 SCOPE AND FIELD OF APPLICATION

This International Standard describes methods of checking the adhesion of electrodeposited and chemically deposited coatings. It is limited to tests of a qualitative nature. Table 2 indicates the suitability of each test for some of the most usual types of metallic coatings. Most of the tests described are capable of destroying both the coating and the article being tested, but some destroy the coating only. Even if the adhesion of the coating is found to be satisfactory on articles not destroyed in testing, it should not be assumed that the articles are undamaged. For example, the burnishing test (see 2.1) may render an article unacceptable and the thermal shock test (see 2.12) may produce unacceptable metallurgical changes.

This International Standard does not describe certain tests which have been developed at various times to give a quantitative measure of adhesion of metallic coating to a substrate since such tests require special apparatus and considerable skill in their performance which renders them unsuitable as quality control tests for production parts. Some of these quantitative tests may, however, be useful in research and development work.

When particular methods of adhesion testing are included in International Standards for individual coatings, they should be used in preference to the methods described in this International Standard and should be agreed upon beforehand by the supplier and the purchaser.

2 METHODS OF TEST

2.1 Burnishing test

If plated parts are subjected to burnishing in a localized area, the deposit will tend to work-harden and absorb frictional heat. If the coating is thin, separation of the coating from the basis metal as blisters will occur under these conditions in areas of poor adhesion.

When the shape and size of the part permits, an area of not more than 6 cm² of the plated surface should be rubbed with a smooth implement for about 15 s. A suitable implement is a steel rod 6 mm in diameter with a smooth hemispherical end.

The pressure shall be sufficient to burnish the coating at every stroke but not so great as to cut the coating. Poor

adhesion is indicated by the appearance of a blister which grows as the rubbing is continued.

If the mechanical properties of the coating are poor, the blister may crack and the coating will peel from the basis metal. This test shall be limited to relatively thin deposits.

2.2 Ball burnishing test

Ball burnishing is frequently used for polishing, but it can be used also to test adhesion. Using a barrel or vibratory burnisher with steel balls about 3 mm in diameter and soap solution as lubricant, it is possible to produce blisters when the adhesion is very poor. The method is suitable for relatively thin deposits.

2.3 Shot peening test

There are some variations of the principle by which the hammering action of iron or steel balls, allowed to fall by gravity or forced by means of a pressure air stream onto the surface to be tested, produces deformation of the deposit.

If the coating is poorly bonded, it will become blistered. Usually, the intensity of peening necessary to cause non-adherent coatings to blister varies with the coating thickness, thin coatings requiring less than thick coatings.

One test can be performed using a tube 160 mm long, 19 mm internal diameter, as the reservoir for round iron or steel shot (0,75 mm diameter approximately) connected to a nozzle. Compressed air is brought to the apparatus with a pressure of 0,07 to 0,21 MPa¹⁾ and the distances between nozzle and specimen are 3 to 12 mm.

Another test, that appears to be the most suitable for checking the adhesion of electroplated coatings of silver during production of coatings from 100 to 600 µm in thickness, is described in the annex and employs a standard air-operated cabinet of the type used for shot-peening steel parts.

If the silver is poorly bonded, it will extend or flow and become blistered.

2.4 Peel test

This test is suitable for coatings less than 125 µm thick on substantially flat surfaces. A strip of tinned mild steel or brass, approximately 75 mm long x 10 mm wide x 0,5 mm thick, is bent at right angles 10 mm from one end and the

1) 1 MPa = 1 MN/m².

Metallic Coatings On Metallic Substrates

Anthony E. Hughes, Russel Varley



Metallic Coatings On Metallic Substrates:

UNE-EN ISO 2819:2018 ,2018 UNE-EN ISO 2819:1996 ,2017 **Metallic Coatings on Metallic Substrates** ,1995 **Metallic Coatings on Metallic Substrates** Standards South Africa,2007 **Metallic Coatings on Metallic Substrates** South African Bureau of Standards,1993 Metallic Coatings on Metallic Substrates. Electrodeposited and Chemically Deposited Coatings. Review of Methods Available for Testing Adhesion British Standards Institute Staff,1918-03-14 Coatings Chemical plating Grinding Peeling tests Thermal shock tests Chisels Mechanical testing Silver Electrolysis Cupping tests Surface treatment Erichsen cupping tests Test equipment Bend testing Tensile testing Electrodeposition Metal coatings Adhesion tests Wrapping tests Sawing Testing conditions Steels Metals Peening

Methods for Corrosion Testing of Metallic and Other Inorganic Coatings on Metallic Substrates. Rating of Test Specimens and Manufactured Articles Subjected to Corrosion Tests British Standards Institute Staff,2001-05-15 Corrosion tests Physico chemical methods Corrosion resistance Metal coatings Protective coatings Non metallic coatings Coated materials Metals Ratings Test specimens Test equipment Decorative coatings Panels Corrosion environments Environmental testing Accelerated corrosion tests Accelerated testing Materials Degradation and Its Control by Surface Engineering Andrew W. Batchelor,Loh Nee Lam,Margam Chandrasekaran,2011 This book provides a general holistic view of materials degradation without undue emphasis on aqueous corrosion with the neglect of other important topics such as liquid metal corrosion Discussion of materials degradation is balanced by detailed description and evaluation of surface engineering as a means of managing materials degradation Thus the trainee engineer is presented with a comprehensive view of the problem rather than just a part of the problem The control or management of materials degradation is not only discussed in scientific terms but the economics or financial aspects of materials degradation and surface engineering is also discussed in detail with the help of analytical models *Micro and Precision Manufacturing* Kapil Gupta,2017-10-15 This book provides details on various micro and precision manufacturing and finishing operations performed by conventional and advanced processes including micro manufacturing of micro tools and precision finishing of engineered components It describes the process mechanism principles and parameters while performing micro fabrication and precision finishing operations The text provides the readers with knowledge of micro and precision manufacturing and encourages them to explore the future venues in this field *Polymetallic Coatings to Control Biofouling in Pipelines* Vinita Vishwakarma,Dawn S S,K. Gobi Saravanan,A. M. Kamalan Kirubaharan,Saravanamuthu Vigneswaran,Gayathri Naidu,2021-09-13 Most of the pipelines used for the transport of various fluids are susceptible to the formation of biofilms and the undesirable accumulation of microorganisms in pipelines leads to biodeterioration and increases the maintenance cost of the pipelines This book focuses on nanostructured polymetallic coatings for corrosion and biofouling protection in offshore oil and gas pipelines marine pipelines ship structures and port facilities and corrosion resistance surfaces of several engineered

structures Considering various reasons of biofouling in pipelines that transport crude and refined petroleum gas biofuels and other fluids including sewage slurry and water for drinking or irrigation the underlying mechanism is thoroughly explained A comparison of various protective techniques is also highlighted for the choice of methods for specific applications Features Provides information on biofouling control with broad significance and applicability in various industrial and research areas Discusses microbially induced corrosion on biofuel transporting pipelines Includes data from experiments conducted to overcome biofouling and biocorrosion Gives out particular attention to metallic coatings and environmental considerations Explores novel technologies preventing biofouling on metallic and polymeric substrates This book is for researchers and graduate students in Coatings and Paints Microbiology Bioprocess Engineering Biotechnology Industrial Engineering Mechanical and Chemical Engineering Marine Engineering Surface and Corrosion Engineering and Water and Wastewater Treatment Low Absorptance Metallic Coatings for Metallic Substrates John R. Kurdock, PERKIN-ELMER CORP

NORWALK CONN ELECTRO-OPTICAL DIV., 1974 The program resulted in producing the fabrication technology that is required for high energy 10.6 micrometer laser programs now underway Polishing and coating techniques for metallic substrates were developed and the deposition of metallic coatings to reproducibly create metal mirror surfaces with low absorptance of a wavelength of 10.6 micrometer was investigated The basic task was one of expanding and transferring to metal substrates the technology developed by Bennett and Ashley for fused silica substrates Metal substrates of molybdenum TZM and beryllium copper were polished to a surface roughness of from 12 Å to 15 Å rms and overcoated with ultra high vacuum silver and gold Absorption coefficients obtained were as low as 0.0064 The basic finishing technique that is now employed is acid etch stress relieving and controlled grinding modified conventional polishing techniques sputtering of similar metallic film and modified conventional polishing Modified author abstract *Biocompatibility Protocols for Medical Devices and Materials* Prakash Srinivasan Timiri Shanmugam, Thamizharasan Sampath, Indumathy Jagadeeswaran, 2023-04-07 Biocompatibility Protocols for Medical Devices and Materials provides comprehensive coverage of the basic science and toxicological testing protocols necessary for the risk assessment and safety analysis of medical devices and materials which are based on the ISO guidelines for body contact and duration of contact The book begins with device component selection for toxicological experiments and provides an introduction to topics such as sensitization irritation tests material mediated pyrogenicity and bacterial mediated pyrogenicity Toxicology related chapters explain the protocols for cytotoxicity acute systemic toxicity repeated exposure systemic toxicity genotoxicity carcinogenicity and reproductive toxicity testing Biocompatibility Protocols for Medical Devices and Materials is a practical guide that provides step by step toxicological protocols ranging from materials selection to data interpretation for toxicologists biomedical researchers healthcare professionals product developers and others working in risk assessment and safety analysis of medical devices Explains the biocompatibility test protocols for medical devices Provides an overview about chemical characterization

Describes toxicokinetic carcinogenicity and reproductive toxicity studies Discusses the basic points needed to leverage the data from another device Metallic Coatings for Corrosion Control V. E. Carter,2013-10-22 Metallic Coatings for Corrosion Control describes how metal coatings can control corrosion the selection process preparations suitability limitations and how coatings are applied The book reviews the nature of corrosion the forms of corrosion even general uneven general even local narrow pits cracking electrochemical mechanism of corrosion effects of discontinuities in coatings and economic considerations of coating It describes pretreatments such as removal of superficial corrosion abrading polishing the coating processes molten or spray application chemical or vapor deposition diffusion coating and also coating performance The rate of corrosion on different metals such as aluminum cadmium copper gold silver or tin depends on the presence of an oxide film solubility electrodeposits or tarnish blackening Gold is resistant to corrosion and tarnishing except in aqua regia The book recommends the following when the engineer is selecting a type of coating the environment where it is exposed the service life required the substrate material shape or size of the article its decorative appeal mechanical factors and if there will be any subsequent fabrication The book is useful for students of civil structural and mechanical engineering Designers and technicians of industrial machinery or maritime equipment will also profit from reading it Coatings for High-Temperature Structural Materials National Research Council,Division on Engineering and Physical Sciences,National Materials Advisory Board,Commission on Engineering and Technical Systems,Committee on Coatings for High-Temperature Structural Materials,1996-06-13 This book assesses the state of the art of coatings materials and processes for gas turbine blades and vanes determines potential applications of coatings in high temperature environments identifies needs for improved coatings in terms of performance enhancements design considerations and fabrication processes assesses durability of advanced coating systems in expected service environments and discusses the required inspection repair and maintenance methods The promising areas for research and development of materials and processes for improved coating systems and the approaches to increased coating standardization are identified with an emphasis on materials and processes with the potential for improved performance quality reproducibility or manufacturing cost reduction **Materials Degradation And Its Control By Surface Engineering (2nd Edition)** Andrew William Batchelor,Margam Chandrasekaran,Nee Lam Loh,2003-03-12 The second edition of Materials Degradation and Its Control by Surface Engineering continues the theme of the first edition where discussions on corrosion wear fatigue and thermal damage are balanced by similarly detailed discussions on their control methods e g painting and metallic coatings The book is written for the non specialist with an emphasis on introducing technical concepts graphically rather than through algebraic equations In the second edition the graphic content is enhanced by an additional series of colour and monochrome photographs that illustrate key aspects of the controlling physical phenomena Existing topics such as liquid metal corrosion have been extended and new topics such as corrosion inhibitors added *Thin Films and Coatings* Sam Zhang,2015-07-29 Thin Films

and Coatings Toughening and Toughness Characterization captures the latest developments in the toughening of hard coatings and in the measurement of the toughness of thin films and coatings Featuring chapters contributed by experts from Australia China Czech Republic Poland Singapore Spain and the United Kingdom this book Presents the current status of hard yet tough ceramic coatings Reviews various toughness evaluation methods for films and hard coatings Explores the toughness and toughening mechanisms of porous thin films and laser treated surfaces Examines adhesions of the film substrate interface and the characterization of coating adhesion strength Discusses nanoindentation determination of fracture toughness resistance to cracking and sliding contact fracture phenomena Toughening and toughness measurement of films and coatings are two related yet separate fields of great importance in today s nanotechnology world Thin Films and Coatings Toughening and Toughness Characterization is a timely reference written in such a way that novices will find it a stepping stone to the field and veterans will find it a rich source of information for their research **New Generation**

Coatings for Metals Anthony E. Hughes, Russel Varley, 2020-11-09 In recent decades there have been extensive developments in science and technology These advances provide new techniques to deposit coatings onto various substrates thus addressing the ever increasing performance requirements of various applications Moreover as technology itself develops there are new problems that require new solutions some of which can be solved through the application of coatings Thus the demands from coatings are continually increasing and the field is growing The collection of articles contained within this volume cover a wide range of different research approaches to coatings reflecting the expanding field of coatings It covers examples from topics such as a cold spray of magnesium alloys onto steel substrates mechanical coatings of Ti based materials onto steel balls electroless plating of Ni P coating onto an Mg based alloy magnetron sputtering of Ru Zr coatings onto a Si wafer a review of ionic liquids that form surface layers as corrosion inhibitors nano composite epoxy coatings containing exfoliated clay montmorillonite for steel protection a coating based on plasma electrolytic oxidation of an aluminum alloy and inhibited epoxy primer for aerospace aluminum alloys This volume provides a wide angle snapshot of current coating technologies through the presentation of some specific studies **Corrosion Engineering Handbook - 3**

Volume Set Philip A. Schweitzer, P.E., 2018-10-03 Corrosion can be both costly and dangerous resulting in product contamination or loss as well as structural instability and premature failure This handbook contains information necessary for ensuring that regardless of the structure being built the materials selected for construction will minimize corrosion and its consequences Nearly t *Corrosion Processes* George Vachtsevanos, K. A. Natarajan, Ravi Rajamani, Peter Sandborn, 2020-01-01 This book discusses relevant topics in field of corrosion from sensing strategies to modeling of control processes corrosion prevention detection of corrosion initiation prediction of corrosion growth and evolution to maintenance practices and return on investment Written by leading international experts it combines mathematical and scientific rigor with multiple case studies examples colorful images case studies and numerous references exploring the essentials of

corrosion in depth It appeals to a wide readership including corrosion engineers managers students and industrial and government staff and can serve as a reference text for courses in materials mechanical and aerospace engineering as well as anyone working on corrosion processes

Handbook of Smart Coatings for Materials Protection Abdel Salam Hamdy Makhlouf, 2014-02-22 A smart coating is defined as one that changes its properties in response to an environmental stimulus The Handbook of Smart Coatings for Materials Protection reviews the new generation of smart coatings for corrosion and other types of material protection Part one explores the fundamentals of smart coatings for materials protection including types materials design and processing Chapters review corrosion processes and strategies for prevention smart coatings for corrosion protection techniques for synthesizing and applying smart coatings multi functional self healing coatings and current and future trends of protective coatings for automotive aerospace and military applications Chapters in part two focus on smart coatings with self healing properties for corrosion protection including self healing anticorrosion coatings for structural and petrochemical engineering applications smart self healing coatings for corrosion protection of aluminum alloys magnesium alloys and steel smart nanocoatings for corrosion detection and control and recent advances in polyaniline based organic coatings for corrosion protection Chapters in part three move on to highlight other types of smart coatings including smart self cleaning coatings for corrosion protection smart polymer nanocomposite water and oil repellent coatings for aluminum UV curable organic polymer coatings for corrosion protection of steel smart epoxy coatings for early detection of corrosion in steel and aluminum and structural ceramics with self healing properties The Handbook of Smart Coatings for Materials Protection is a valuable reference for those concerned with preventing corrosion particularly of metals professionals working within the surface coating industries as well as all those with an academic research interest in the field Reviews the new generation of smart coatings for corrosion and other types of material protection Explores the fundamentals of smart coatings for materials protection including types materials design and processing Includes a focus on smart coatings with self healing properties for corrosion protection

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