

SSPC: The Society for Protective Coatings

TECHNOLOGY GUIDE 15

Field Methods for Retrieval and Analysis of Soluble Salts on Steel and Other Nonporous Substrates

1. Scope

1.1 This Guide describes the most commonly used field methods for the retrieval and analysis of soluble salts on steel and other nonporous substrates. Laboratory methods are only included for situations where laboratory control is desired. Much of this information was contained in SSPC-TU 4, Field Methods for the Retrieval and Analysis of Soluble Salts on Substrates, which will be withdrawn after publication of this Guide.¹

2. Description and Use

2.1 Coatings applied on surfaces contaminated with soluble salts exceeding a certain concentration exhibit diminished performance. This Guide is intended to assist the user in selecting specific procedures for retrieving and analyzing soluble salts. Section 4 of the Guide discusses the various methods for retrieving salts from a surface. Section 5 discusses the analytical methods used to determine the concentration of the soluble salts in the extracted solution. See Appendix E for links to information on sources for testing equipment and materials.

3. Referenced Standards

3.1 SSPC STANDARDS AND JOINT STANDARDS:¹

SP 5/NACE No. 1 White Metal Blast Cleaning

3.2 INTERNATIONAL ORGANIZATION FOR STANDARDIZATION (ISO) STANDARDS:²

ISO 8502	Preparation of steel substrates before application of paints and related products - Tests for the assessment of surface cleanliness
Part 2	Laboratory determination of chloride on cleaned surfaces (ISO 8502-2:1992)
Part 5	Measurement of chloride on steel surfaces prepared for painting—ion

	detection tube method (ISO 8502-5:1998)
Part 6	Extraction of soluble contaminants for analysis—The Bresle method (ISO 8502-6:1995)
Part 9	Field method for conductimetric determination of water-soluble salts (ISO 8502-9:1998)
Part 10:	Field method for the titrimetric determination of water-soluble chloride (ISO 8502-10:1999)
Part 12:	Field method for the titrimetric determination of water-soluble ferrous ions (ISO 8502-12:2003)

4. Retrieval Methods

4.1 CLASSES OF RETRIEVAL METHODS: Salt retrieval methods employed to help determine surface concentrations of salt on substrates fall into three general classes, which can be further subdivided. (See Appendix E for links to information on testing equipment and materials.)

4.1.1 Class A: Class A retrieval involves a methodology for containing a liquid that is held in contact with a surface of predetermined area. Turbulence within the contacting liquid enhances the dissolution of the salt contamination into the solution.

Method A1: Patch Cell Retrieval Method: This method utilizes a small adhesive patch covered with a latex film, which attaches to the structure forming a cell cavity. Self-contained adhesive edges allow the cell to adhere to the surface. Distilled or deionized water or a proprietary extraction liquid is then injected into its center with a hypodermic needle. The patch lifts up like a large paint blister. The liquid is massaged against the surface being tested, retrieved from the patch using the hypodermic needle, and tested for concentration of ions.

Method A2: Sleeve Retrieval Method: This method uses a small flexible chloride-free latex sleeve (sock) with a self-contained adhesive edge that is attached to the structure being

¹ Single copies of withdrawn standards may be obtained from SSPC upon request.

² International Organization for Standardization (ISO), Case Postale 56, Geneva, CH-1211, Switzerland. ISO standards may be obtained through the American National Standards Institute, 1819 L Street, NW, Suite 500, Washington, DC 20036 (www.ansi.org).

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Bob Lemke



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Handbook of Engineering Practice of Materials and Corrosion Jung-Chul (Thomas) Eun, 2020-09-04 This handbook is an in depth guide to the practical aspects of materials and corrosion engineering in the energy and chemical industries The book covers materials corrosion welding heat treatment coating test and inspection and mechanical design and integrity A central focus is placed on industrial requirements including codes standards regulations and specifications that practicing material and corrosion engineers and technicians face in all roles and in all areas of responsibility The comprehensive resource provides expert guidance on general corrosion mechanisms and recommends materials for the control and prevention of corrosion damage and offers readers industry tested best practices rationales and case studies Metallurgy and Corrosion Control in Oil and Gas Production Robert Heidersbach, 2018-09-17 Details the proper methods to assess prevent and reduce corrosion in the oil industry using today s most advanced technologies This book discusses upstream operations with an emphasis on production and pipelines which are closely tied to upstream operations It also examines protective coatings alloy selection chemical treatments and cathodic protection the main means of corrosion control The strength and hardness levels of metals is also discussed as this affects the resistance of metals to hydrogen embrittlement a major concern for high strength steels and some other alloys It is intended for use by personnel with limited backgrounds in chemistry metallurgy and corrosion and will give them a general understanding of how and why corrosion occurs and the practical approaches to how the effects of corrosion can be mitigated Metallurgy and Corrosion Control in Oil and Gas Production Second Edition updates the original chapters while including a new case studies chapter Beginning with an introduction to oilfield metallurgy and corrosion control the book provides in depth coverage of the field with chapters on chemistry of corrosion corrosive environments materials forms of corrosion corrosion control inspection monitoring and testing and oilfield equipment Covers all aspects of upstream oil and gas production from downhole drilling to pipelines and tanker terminal operations Offers an introduction to corrosion for entry level corrosion control specialists Contains detailed photographs to illustrate descriptions in the text Metallurgy and Corrosion Control in Oil and Gas Production Second Edition is an excellent book for engineers and related professionals in the oil and gas production industries It will also be an asset to the entry level corrosion control professional who may have a theoretical background in metallurgy chemistry or a related field but who needs to understand the practical limitations of large scale industrial operations associated with oil and gas production **Department Of Defense Index of Specifications and Standards Federal Supply Class Listing (FSC) Part III July 2005** , *Index of Specifications and Standards* , **PassPorter's Field Guide to the Disney Cruise Line and Its Ports of Call** Jennifer Watson, Dave Marx, Mickey Morgan, 2004-04 Book passage on the only guidebook dedicated to the magic and wonder of the Disney Cruise Line This handbook has everything needed to know including maps deck plans photos and worksheets Fully updated second edition Expanding Metropolitan Highways National Research Council

(U.S.). Transportation Research Board. Committee for Study of Impacts of Highway Capacity Improvements on Air Quality and Energy Consumption, Bernard R. Appleman, National Research Council (U.S.). Transportation Research Board, 1995-02

This synthesis will be of interest to state DOT bridge maintenance and construction engineers regulators consultants and contractors involved with the removal of lead paint from bridges and structures and structural coatings specialists chemists and researchers This synthesis describes the current state of the practice for the removal of lead based paint from existing highway steel bridges Avant propos **Journal of Protective Coatings & Linings** ,2008 *Materials Performance* ,2003

Synthesis of Highway Practice National Cooperative Highway Research Program,1998 **Steel Structures Painting Manual: Systems and specifications** Steel Structures Painting Council,1955 **Systems and specifications** Steel Structures Painting Council,1982 **Guide to Design Criteria for Bolted and Riveted Joints** Geoffrey L. Kulak,John W. Fisher,John H. A. Struik,1987-04-14 This updated version of the first edition examines the strength and deformation behaviour of riveted and bolted structural connectors and the joints in which they are used **Paint Handbook** Guy E. Weismantel,1981 How to select and apply the right paint or coating for any surface Full advice on testing surface preparation application corrosion prevention and troubleshooting Covers wood metal composites and masonry as well as marine applications and roof coatings *Encyclopedia of Environmental Analysis and Remediation, Volume 4* Robert A. Meyers,1998-03-23 This encyclopedia is composed of an eight volume set that provides an overview of the field of environmental analysis The contents are divided into major content areas including air pollution control environmental law and environmental sampling The volumes are organized alphabetically with each article signed by the author s The individual articles begin with a summary of the topic heading and then divide the text into subtopics indicated by boldface headings The articles are written clearly however the authors assume a basic knowledge of chemistry and math on the part of the reader For example the acid mine drainage article refers to the Arrhenius equation but does not clarify this statement in the text Each article contains graphs as well as pictures to illustrate points made in the text The articles are long and provide a detailed explanation of each topic The authors also provide a bibliography at the end of each article Special features of the encyclopedia include a list of contributors a table of conversion factors and a list of abbreviations and acronyms The preface outlines the general contents of the encyclopedia The preface also includes sections that suggest the target audience and recommended usages for the set The final volume of the set contains an alphabetic index to the topics contained in the volumes *2007 Standard Catalog of Baseball Cards* Bob Lemke,2006 Appeals to passionate and casual collectors alike including the 33 000 readers of Sports Collector s Digest and people participating in the more than 185 000 continuous online auctions **Concrete International** ,2004 **ASHRAE Journal** ,1996 *Proceedings of the ... Annual Road School* Benjamin Harrison Petty,1999 *IBTTA Functional Committee Presentations* ,1992 *Welding Journal* ,2009

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