



SSPC: The Society for Protective Coatings Technology Guide 15

Field Methods for Extraction 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 extraction and analysis of soluble salts on steel and other nonporous substrates. Laboratory methods are only included for situations where more complete salt extractions are desired through rigorous laboratory retrieval and analysis protocols.

2. Description and Use

2.1 INTRODUCTION: Coatings applied on surfaces contaminated with soluble salts exceeding a certain concentration exhibit diminished performance. Likewise, self-passivating metals (not intended for coating such as stainless steel, aluminum and copper) can be compromised from elevated concentrations of residual soluble salts in corrosive environments. Soluble salt testing involves two basic steps: 1) extraction of salts from the surface into a solution and 2) the analysis of the solution. This Guide is intended to assist the user in selecting specific procedures for extracting and performing qualitative and/or quantitative soluble salts from steel and nonporous surfaces. It includes field methods for measuring total conductivity (fully automated or multi-step) and specific ions. It also offers guidance for destructive laboratory soluble salt extraction and testing. An overview of available field and laboratory techniques, methods of salt extraction and surface concentration calculations are provided in Tables 1 and 2 respectively. A discussion and sources on the efficiency of salt removal (also called extraction) from the metal surfaces of interest are provided in Appendix C.

2.1.1 Abbreviations:

Cl ⁻	chloride ion
cm ³	cubic centimeters
cm ²	square centimeters
Fe ⁺⁺	ferrous ion
μS	microSiemens
μS/cm	microSiemens per centimeter
mg	milligram
ml	milliliter
ppm	parts per million
NaCl	sodium chloride
NO ₃ ⁻	nitrate ion
SO ₄ ⁻²	sulfate ion

2.2 SALT EXTRACTION SOLUTIONS

All of the reagents used to extract salts from metal surfaces in this document fall into two categories: reagent water and proprietary aqueous solutions. They will be designated herein as reagent water or proprietary extraction solution.

2.2.1 Reagent Water: Reagent water used for salt extraction should have a maximum conductivity of 5 μS/cm. Distilled water may be purchased at grocery stores but verification of the conductivity is recommended. Alternatively, a portable demineralizer may be used to make reagent water on site. Pour tap water into the plastic bottle, attach the demineralizer cartridge in the direction indicated, invert, and squeeze out the desired amount of water (for many of the tests described below, at least 25 ml will be required). The cartridge can be used until the blue color turns brown, as indicated on the side of the cartridge. Once this occurs, replace the cartridge. Each cartridge should demineralize approximately 3000 ml of water.

2.2.2 Proprietary Solutions: Proprietary extraction solutions may be included with some commercial test kits. These solutions should only be used for the soluble salts described in the kit instructions. Proprietary solutions are not suitable for measuring conductivity of extracted solutions.

3. Referenced Standards

The standards listed below are updated on a periodic basis. The user of this guide should consult the most recent revision.

3.1 SSPC STANDARDS AND JOINT STANDARDS:

SP 5/NACE No. 1 White Metal Blast Cleaning

3.2 ASTM INTERNATIONAL STANDARDS¹

ASTM D4327	Standard Test Method for Anions in Water by Chemically Suppressed Ion Chromatography
ASTM D512	Standard Test Methods for Chloride Ion in Water

¹ ASTM International, 100 Barr Harbor Drive, West Conshohocken, PA 19380-2999. For referenced ASTM standards, visit the ASTM website, <http://www.astm.org/>, or contact ASTM Customer Service at customer@astm.org. For Annual Book of ASTM Standards volume information, refer to the standard's Document Summary page on the ASTM website.

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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*

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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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