



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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