



## 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 <sup>-</sup>	chloride ion
cm <sup>3</sup>	cubic centimeters
cm <sup>2</sup>	square centimeters
Fe <sup>++</sup>	ferrous ion
μS	microSiemens
μS/cm	microSiemens per centimeter
mg	milligram
ml	milliliter
ppm	parts per million
NaCl	sodium chloride
NO <sub>3</sub> <sup>-</sup>	nitrate ion
SO <sub>4</sub> <sup>-2</sup>	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 STANDARDS<sup>1</sup>

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

<sup>1</sup> ASTM International, 100 Bar 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 [custserv@astm.org](mailto:custserv@astm.org). For Annual Book of ASTM Standards volume information, refer to the standard's Document Summary page on the ASTM website.

# Sspc Technology Guide 15 Method A

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for Testing and Materials**

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*Handbook of Thermal Spray Technology* Joseph R. Davis, 2004-01-01 This reference covers principles processes types of coatings applications performance and testing and analysis of thermal spray technology It will serve as an introduction and guide for those new to thermal spray and as a reference for specifiers and users of thermal spray coatings and thermal spray experts Coverage encompasses basics of th

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, [Blast Cleaning Technology](#) A. Momber, 2007-12-15 Blast cleaning is one of the most frequently utilised surface treatment method in modern industry Tilghman's patent on Improvement in cutting and engraving stone metal glass etc 1870 was the starting point of the utilisation of blast cleaning for industrial processes Early applications included applications in the foundry industry steel making industry and corrosion protection industry Today's applications include the use for micro machining polishing maintenance and surface preparation for coating applications Recent advanced applications in the machining industry include blast cleaning assisted laser milling The book is the first comprehensive monograph in this subject It provides a practical and comprehensive review of the technology This book systematically and critically reviews the theory behind the technology the state of current blast cleaning surface quality aspects and the effects

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