

Salt Spray Testing



M0140 Salt Spray Test

Terry C. Jones



M0140 Salt Spray Test:

Corrosion Tests and Standards Robert Baboian, 2005 The Standard Salt-Spray Test--Is it a Valid Acceptance Test? A. Mendizza, 1957 The salt spray test was originally developed some 40 odd years ago for the purpose of quickly evaluating the resistance of plated coatings to attack by marine atmospheres Through the years an ever increasing use has been made of this test for the purpose of controlling quality of electroplated articles Today the salt spray test is employed not only to evaluate the quality of all types of electroplated coatings both of the cathodic and of the anodic type but is also frequently used for testing completely assembled equipment Many specifications contain requirements based on performance in the salt spray compliance with which is rigidly enforced The endpoint requirements will vary depending on the type of coating tested or on the combination of dissimilar metals used In the case of electropositive coatings the endpoint is usually specified in terms of a permissible number of corrosion spots per unit area that will develop in a given time Electronegative coatings such as zinc and cadmium on steel are evaluated by their ability to prevent rust formation Notwithstanding its widespread use the salt spray test has frequently been subject to criticism for being unrealistic and misused 2 3 4 Its role as a forecaster of service performance has been challenged and failure to correlate salt spray test results with performance to actual atmospheric environments have been reported in the literature 5 6 7 Inability to obtain reproducible results both within any one test box as well as amongst several boxes has also been unofficially reported by many users of this test Although its shortcomings are thus generally recognized the salt spray test continues to form a part of many finish specifications both in industry and government agencies The lack of a more suitable replacement is the most frequent reason given for the retention of the salt spray test as a standard test The American Society for Testing Materials has standardized a salt spray testing procedure with its Method B 117 The uniformity of conditions within the test chamber operated in accordance with this test procedure is controlled primarily by three physical parameters rate of salt fog precipitation concentration of collected salt solution and ambient temperature Rather wide limits are allowed for the precipitation rate The concentration of collected solution and the temperature are kept within much narrower limits In addition the chemical purity of the salt and the pH of the salt solution are also controlled No provisions are made for calibrating the salt spray test chamber against some standard Government specifications on the salt spray are in the main similar to those covered by the ASTM method

Salt Spray Test W. H. Mutchler, R. W. Buzzard, P. W. C. Strausser, 1938 **Standard Practice for Modified Salt Spray (fog) Testing** American Society for Testing and Materials, 2009 **Salt Spray Testing**, 1988 Value of Salt Spray Test, an Investigation of Heterogeneity Within the Chamber and Other Factors Affecting the Reliability of the Salt-spray Test for Weathering Resistance of Coated Steel Sheet James Page Mills, Thomas Elliott Shaughnessy, 1933 **The Salt Spray Test**, 2004 **Salt-Spray Testing** J. J. Bowman, E. H. Dix, 1937 Although theoretical studies afford valuable information simple practical tests are of marked assistance in predicting the resistance of materials to specific corrosive conditions One

of the oldest of these is the salt spray. The authors believe much of its unpopularity results from uncontrolled variables and the lack of standardized procedures and they present data to show that the test is both useful and reliable when properly administered. The factors which they believe should be controlled are briefly discussed and standard conditions for each factor are suggested. However, the paper has been written to stimulate discussion of the test and promote more universal agreement on the testing methods used and is not intended as a standard practice.

Standard Practice for Modified Salt Spray Fog Testing, *Standard Practice for Modified Salt Spray (fog) Testing* ASTM International, 2003. Methods of test for metallic and related coatings, Part 3.1: Corrosion and related property tests - Neutral salt spray (NSS) test, *Standard Method of Salt Spray (fog) Testing* American Society for Testing and Materials, United States of America Standards Institute, American National Standards Institute, 1964*.

Materials Evaluation Using Wet-Dry Mixed Salt-Spray Tests JB. Johnson, SB. Lyon, GE. Thompson, 1992. Accelerated methods for corrosion testing of materials based on the use of salt sprays have been standardized since the early 1930s. However, despite the many significant advances in the mechanistic understanding of atmospheric corrosion phenomena since those days, most changes in accelerated test standards have been implemented to reduce the time of the tests and thus their costs by increasing their severity. Thus, although laboratory accelerated test methods have played an important role in the assessment of materials performance in general, they have not been applied by virtue of their ability to simulate and enhance natural weathering. In particular, wet-dry cycles simulate the natural wetting and drying which occurs in practice and under many conditions can aid in the formation of naturally occurring corrosion product films which frequently play a role in the kinetics of metal corrosion. In addition, the use of a relatively dilute mixed salt spray in comparison with the more commonly used solutions based on 5% NaCl (e.g. ASTM B 117 Method for Salt Spray Fog Testing) can result in corrosion morphologies and behavior which are more representative of natural conditions. This paper describes a wet-dry mixed salt spray test using solutions containing mixtures of NH_4HSO_4 and NaCl with a 1 h wet / 1 h dry cycle. The basis and reasons for using the test are discussed in depth with the emphasis on illustrating the improvements in realism which are attained using this procedure rather than a standard continuous NaCl test. In addition, the results from accelerated corrosion testing of aluminum are presented to illustrate the main features of the test. Finally, possible developments and improvements in the salt spray methods including the use of solutions resembling artificial rainwater are discussed.

Corrosion tests in artificial atmospheres - salt spray tests (ISO/DIS 9227:2021), 2022. DR 99380 Methods of Test for Metallic and Related Coatings - Method 3.1, **Methods of test for metallic and related coatings, Part 3.2: Corrosion and related property tests - Acetic acid salt spray (ASS) test**, **Test Method for Salt Spray** American National Standards Institute, Society of Cable Telecommunications Engineers, 2013.

Methods of Test for Metallic and Related Coatings, 1980. **Standard test method for copper-accelerated acetic acid-salt spray (fog) testing (CASS test)**, 2003. **Methods of test for metallic and related coatings, Part 3.3:**

Corrosion and related property tests - Copper accelerated acetic acid salt spray (CASS) test ,

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