



Standard Practice for Conducting Wire-on-Bolt Test for Atmospheric Galvanic Corrosion¹

This standard is issued under the fixed designation G 116; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ϵ) indicates an editorial change since the last revision or reapproval.

1. Scope

1.1 This practice covers the evaluation of atmospheric galvanic corrosion of any anodic material that can be made into a wire when in contact with a cathodic material that can be made into a threaded rod.

1.2 When certain materials are used for the anode and cathode, this practice has been used to rate the corrosivity of atmospheres.

1.3 The wire-on-bolt test was first described in 1955 (1),² and has since been used extensively with standard materials to determine corrosivity of atmospheres under the names CLIMAT Test (CLassify Industrial and Marine Δ Tmospheres) (2-5) and ATCORR (Δ Tmospheric CORROsivity) (6-9).

1.4 *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.*

2. Referenced Documents

2.1 ASTM Standards:

- G 1 Practice for Preparing, Cleaning, and Evaluating Corrosion Test Specimens³
- G 3 Practice for Conventions Applicable to Electrochemical Measurements in Corrosion Testing³
- G 15 Terminology Relating to Corrosion and Corrosion Testing³
- G 16 Guide for Applying Statistics to Analysis of Corrosion Data³
- G 50 Practice for Conducting Atmospheric Corrosion Tests

G 91 Practice for Monitoring Atmospheric SO₂ Using the Sulfation Plate Technique³

G 92 Practice for Characterization of Atmospheric Test Sites³

G 104 Test Method for Assessing Galvanic Corrosion Caused by the Atmosphere³

3. Terminology

3.1 For definitions of terms used in this practice, refer to Terminology G 15. For conventions related to this method, refer to Practice G 3.

4. Summary of Practice

4.1 The practice consists of wrapping a wire of the anode material around the threads of a bolt or threaded rod of the cathode material, exposing the assembly to atmosphere, and determining mass loss of the anode wire after exposure. Reference specimens of the anode wire on a threaded, non-conductive, non-porous rod⁴ are used to separate general and crevice corrosion effects from galvanic corrosion effects.

5. Significance and Use

5.1 The small size of the wire compared to the short galvanic interaction distance in atmospheric exposures gives a large cathode-to-anode area ratio which accelerates the galvanic attack. The area between the wire and the threads creates a long, tight crevice, also accelerating the corrosion. For these reasons, this practice, with a typical exposure period of 90 days, is the most rapid atmospheric galvanic corrosion test, particularly compared to Test Method G 104. The short duration of this test means that seasonal atmospheric variability can

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