

ASTM Standards Related to Corrosion Testing of Metals: 3rd Edition

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- F945 Standard Test Method for Stress-Corrosion of Titanium Alloys by Aircraft Engine Cleaning Materials
- R0006 Condensed Metric Practice Guide for Corrosion (This is not an ASTM Publication)

ASTM STANDARDS FOR INCLUSION IN THE CROSS-INDEX (ALL FROM VOLUME 03.02)

- ASTM B117 -07a Standard Practice for Operating Salt Spray (Fog) Apparatus
- ASTM C876 -91(1999) Standard Test Method for Half-Cell Potentials of Uncoated Reinforcing Steel in Concrete
- ASTM G1 -03 Standard Practice for Preparing, Cleaning, and Evaluating Corrosion Test Specimens
- ASTM G100 -89(2004) Standard Test Method for Conducting Cyclic Galvanostaircase Polarization
- ASTM G101 -04 Standard Guide for Estimating the Atmospheric Corrosion Resistance of Low-Alloy Steels
- ASTM G102 -89(2004)e1 Standard Practice for Calculation of Corrosion Rates and Related Information from Electrochemical Measurements
- ASTM G103 -97(2005) Standard Practice for Evaluating Stress-Corrosion Cracking Resistance of Low Copper 7XXX Series Al-Zn-Mg-Cu Alloys in Boiling 6% Sodium Chloride Solution
- ASTM G105 -02(2007) Standard Test Method for Conducting Wet Sand/Rubber Wheel Abrasion Tests
- ASTM G106 -89(2004) Standard Practice for Verification of Algorithm and Equipment for Electrochemical Impedance Measurements
- ASTM G107 -95(2008) Standard Guide for Formats for Collection and Compilation of Corrosion Data for Metals for Computerized Database Input
- ASTM G108 -94(2004)e1 Standard Test Method for Electrochemical Reactivation (EPR) for Detecting Sensitization of AISI Type 304 and 304L Stainless Steels
- ASTM G109 -07 Standard Test Method for Determining Effects of Chemical Admixtures on Corrosion of Embedded Steel Reinforcement in Concrete Exposed to Chloride Environments
- ASTM G110 -92(2003)e1 Standard Practice for Evaluating Intergranular Corrosion Resistance of Heat Treatable Aluminum Alloys by Immersion in Sodium Chloride + Hydrogen Peroxide Solution
- ASTM G111 -97(2006) Standard Guide for Corrosion Tests in High Temperature or High Pressure Environment, or Both
- ASTM G112 -92(2003) Standard Guide for Conducting Exfoliation Corrosion Tests in Aluminum Alloys
- ASTM G113 -06 Standard Terminology Relating to Natural and Artificial Weathering Tests of Nonmetallic Materials

ASTM G116 -99(2004) Standard Practice for Conducting Wire-on-Bolt Test for Atmospheric Galvanic Corrosion

ASTM G119 -04 Standard Guide for Determining Synergism Between Wear and Corrosion

ASTM G123 -00(2005) Standard Test Method for Evaluating Stress-Corrosion Cracking of Stainless Alloys with Different Nickel Content in Boiling Acidified Sodium Chloride Solution

ASTM G129 -00(2006) Standard Practice for Slow Strain Rate Testing to Evaluate the Susceptibility of Metallic Materials to Environmentally Assisted Cracking

ASTM G132 -96(2007) Standard Test Method for Pin Abrasion Testing

ASTM G133 -05 Standard Test Method for Linearly Reciprocating Ball-on-Flat Sliding Wear

ASTM G135 -95(2007) Standard Guide for Computerized Exchange of Corrosion Data for Metals

ASTM G139 -05 Standard Test Method for Determining Stress-Corrosion Cracking Resistance of Heat-Treatable Aluminum Alloy Products Using Breaking Load Method

ASTM G140 -02(2008) Standard Test Method for Determining Atmospheric Chloride Deposition Rate by Wet Candle Method

ASTM G142 -98(2004) Standard Test Method for Determination of Susceptibility of Metals to Embrittlement in Hydrogen Containing Environments at High Pressure, High Temperature, or Both

ASTM G146 -01(2007) Standard Practice for Evaluation of Disbonding of Bimetallic Stainless Alloy/Steel Plate for Use in High-Pressure, High-Temperature Refinery Hydrogen Service

ASTM G148 -97(2003) Standard Practice for Evaluation of Hydrogen Uptake, Permeation, and Transport in Metals by an Electrochemical Technique

ASTM G15 -08 Standard Terminology Relating to Corrosion and Corrosion Testing

ASTM G150 -99(2004) Standard Test Method for Electrochemical Critical Pitting Temperature Testing of Stainless Steels

ASTM G157 -98(2005) Standard Guide for Evaluating the Corrosion Properties of Wrought Iron- and Nickel-Based Corrosion Resistant Alloys for the Chemical Process Industries

ASTM G158 -98(2004) Standard Guide for Three Methods of Assessing Buried Steel Tanks

ASTM G16 -95(2004) Standard Guide for Applying Statistics to Analysis of Corrosion Data

ASTM G161 -00(2006) Standard Guide for Corrosion-Related Failure Analysis

ASTM G162 -99(2004) Standard Practice for Conducting and Evaluating Laboratory Corrosions Tests in Soils

ASTM G165 -99(2005) Standard Practice for Determining Rail-to-Earth Resistance

ASTM G168 -00(2006) Standard Practice for Making and Using Precracked Double Beam Stress Corrosion Specimens

ASTM G170 -06 Standard Guide for Evaluating and Qualifying Oilfield and Refinery Corrosion Inhibitors in the Laboratory

ASTM G180 -07 Standard Test Method for Initial Screening of Corrosion Inhibiting Admixtures for Steel in Concrete

ASTM G181 -04 Standard Practice for Conducting Friction Tests of Piston Ring and Cylinder Liner Materials Under Lubricated Conditions

ASTM G184 -06 Standard Practice for Evaluating and Qualifying Oil Field and Refinery Corrosion Inhibitors Using Rotating Cage

ASTM G185 -06 Standard Practice for Evaluating and Qualifying Oil Field and Refinery Corrosion Inhibitors Using the Rotating Cylinder Electrode

ASTM G186 -05 Standard Test Method for Determining Whether Gas-Leak-Detector Fluid Solutions Can Cause Stress Corrosion Cracking of Brass Alloys

ASTM G187 -05 Standard Test Method for Measurement of Soil Resistivity Using the Two-Electrode Soil Box Method

ASTM G188 -05	Standard Specification for Leak Detector Solutions Intended for Use on Brasses and Other Copper Alloys
ASTM G189 -07	Standard Guide for Laboratory Simulation of Corrosion Under Insulation
ASTM G2 / G2M -06	Standard Test Method for Corrosion Testing of Products of Zirconium, Hafnium, and Their Alloys in Water at 680°F [360°C] or in Steam at 750°F [400°C]
ASTM G28 -02(2008)	Standard Test Methods for Detecting Susceptibility to Intergranular Corrosion in Wrought, Nickel-Rich, Chromium-Bearing Alloys
ASTM G3 -89(2004)	Standard Practice for Conventions Applicable to Electrochemical Measurements in Corrosion Testing
ASTM G30 -97(2003)	Standard Practice for Making and Using U-Bend Stress-Corrosion Test Specimens
ASTM G31 -72(2004)	Standard Practice for Laboratory Immersion Corrosion Testing of Metals
ASTM G32 -06	Standard Test Method for Cavitation Erosion Using Vibratory Apparatus
ASTM G33 -99(2004)	Standard Practice for Recording Data from Atmospheric Corrosion Tests of Metallic-Coated Steel Specimens
ASTM G34 -01(2007)	Standard Test Method for Exfoliation Corrosion Susceptibility in 2XXX and 7XXX Series Aluminum Alloys (EXCO Test)
ASTM G35 -98(2004)	Standard Practice for Determining the Susceptibility of Stainless Steels and Related Nickel-Chromium-Iron Alloys to Stress-Corrosion Cracking in Polythionic Acids
ASTM G36 -94(2006)	Standard Practice for Evaluating Stress-Corrosion-Cracking Resistance of Metals and Alloys in a Boiling Magnesium Chloride Solution
ASTM G37 -98(2004)	Standard Practice for Use of Mattsson's Solution of pH 7.2 to Evaluate the Stress-Corrosion Cracking Susceptibility of Copper-Zinc Alloys
ASTM G38 -01(2007)	Standard Practice for Making and Using C-Ring Stress-Corrosion Test Specimens
ASTM G39 -99(2005)	Standard Practice for Preparation and Use of Bent-Beam Stress-Corrosion Test Specimens
ASTM G4 -01(2008)	Standard Guide for Conducting Corrosion Tests in Field Applications
ASTM G41 -90(2006)	Standard Practice for Determining Cracking Susceptibility of Metals Exposed Under Stress to a Hot Salt Environment
ASTM G44 -99(2005)	Standard Practice for Exposure of Metals and Alloys by Alternate Immersion in Neutral 3.5% Sodium Chloride Solution
ASTM G46 -94(2005)	Standard Guide for Examination and Evaluation of Pitting Corrosion
ASTM G47 -98(2004)	Standard Test Method for Determining Susceptibility to Stress-Corrosion Cracking of 2XXX and 7XXX Aluminum Alloy Products
ASTM G48 -03	Standard Test Methods for Pitting and Crevice Corrosion Resistance of Stainless Steels and Related Alloys by Use of Ferric Chloride Solution
ASTM G49 -85(2005)	Standard Practice for Preparation and Use of Direct Tension Stress-Corrosion Test Specimens
ASTM G5 -94(2004)	Standard Reference Test Method for Making Potentiostatic and Potentiodynamic Anodic Polarization Measurements
ASTM G50 -76(2003)	Standard Practice for Conducting Atmospheric Corrosion Tests on Metals
ASTM G51 -95(2005)	Standard Test Method for Measuring pH of Soil for Use in Corrosion Testing
ASTM G52 -00(2006)	Standard Practice for Exposing and Evaluating Metals and Alloys in Surface Seawater
ASTM G57 -06	Standard Test Method for Field Measurement of Soil Resistivity Using the Wenner Four-Electrode Method
ASTM G58 -85(2005)	Standard Practice for Preparation of Stress-Corrosion Test Specimens for Weldments

- ASTM G59 -97(2003) Standard Test Method for Conducting Potentiodynamic Polarization Resistance Measurements
- ASTM G60 -01(2007) Standard Practice for Conducting Cyclic Humidity Exposures
- ASTM G61 -86(2003)e1 Standard Test Method for Conducting Cyclic Potentiodynamic Polarization Measurements for Localized Corrosion Susceptibility of Iron-, Nickel-, or Cobalt-Based Alloys
- ASTM G64 -99(2005) Standard Classification of Resistance to Stress-Corrosion Cracking of Heat-Treatable Aluminum Alloys
- ASTM G65 -04 Standard Test Method for Measuring Abrasion Using the Dry Sand/Rubber Wheel Apparatus
- ASTM G66 -99(2005)e1 Standard Test Method for Visual Assessment of Exfoliation Corrosion Susceptibility of 5XXX Series Aluminum Alloys (ASSET Test)
- ASTM G67 -04 Standard Test Method for Determining the Susceptibility to Intergranular Corrosion of 5XXX Series Aluminum Alloys by Mass Loss After Exposure to Nitric Acid (NAMLT Test)
- ASTM G69 -97(2003) Standard Test Method for Measurement of Corrosion Potentials of Aluminum Alloys
- ASTM G71 -81(2003) Standard Guide for Conducting and Evaluating Galvanic Corrosion Tests in Electrolytes
- ASTM G73 -04 Standard Practice for Liquid Impingement Erosion Testing
- ASTM G78 -01(2007) Standard Guide for Crevice Corrosion Testing of Iron-Base and Nickel-Base Stainless Alloys in Seawater and Other Chloride-Containing Aqueous Environments
- ASTM G82 -98(2003) Standard Guide for Development and Use of a Galvanic Series for Predicting Galvanic Corrosion Performance
- ASTM G84 -89(2005) Standard Practice for Measurement of Time-of-Wetness on Surfaces Exposed to Wetting Conditions as in Atmospheric Corrosion Testing
- ASTM G85 -02e1 Standard Practice for Modified Salt Spray (Fog)
- ASTM G87 -02(2007) Standard Practice for Conducting Moist SO₂ Tests
- ASTM G91 -97(2004) Standard Practice for Monitoring Atmospheric SO₂ Using the Sulfation Plate Technique
- ASTM G92 -86(2003) Standard Practice for Characterization of Atmospheric Test Sites
- ASTM G96 -90(2001)e1 Standard Guide for On-Line Monitoring of Corrosion in Plant Equipment (Electrical and Electrochemical Methods)
- ASTM G97 -97(2007) Standard Test Method for Laboratory Evaluation of Magnesium Sacrificial Anode Test Specimens for Underground Applications
- ASTM G99 -05 Standard Test Method for Wear Testing with a Pin-on-Disk Apparatus

NACE STANDARDS

- RP0775 Preparation, Installation, Analysis, and Interpretation of Corrosion Coupons in Oilfield Operations—Item No. 21017
- RP0690 Standard Format for Collection and Compilation of Data for Computerized Material Corrosion Resistance Database Input—Item No. 21047
- RP0197 Standard Format for Computerized Electrochemical Polarization Curve Data Files—Item No. 21080
- RP0497 Field Corrosion Evaluation Using Metallic Test Specimens—Item No. 21083
- RP0104 The Use of Coupons for Cathodic Protection Monitoring Applications—Item No. 21105
- SP0207 Performing Close-Interval Potential Surveys and DC Surface Potential Gradient Surveys on Buried or Submerged Metallic Pipelines, Item No. 21121
- TM0169 Laboratory Corrosion Testing of Metals—Item No. 21200

- TM0177 Laboratory Testing of Metals for Resistance to Sulfide Stress Cracking and Stress Corrosion Cracking in H₂S Environments—Item No. 21212
- TM0284 Evaluation of Pipeline and Pressure Vessel Steels for Resistance to Hydrogen-Induced Cracking—Item No. 21215
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- TM0497 Measurement Techniques Related to Criteria for Cathodic Protection on Underground or Submerged Metallic Piping Systems—Item No. 21231
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- TM0103 Laboratory Test Procedures for Evaluation of SOHIC Resistance of Plate Steels Used in Wet H₂S Service—Item No. 21242
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- TM0108 Testing of Catalyzed Titanium Anodes for Use in Soils or Natural Waters Item No. 21252
- TM0208 Laboratory Test to Evaluate the Vapor-Inhibiting Ability of Volatile Corrosion Inhibitor Materials for Temporary Protection of Ferrous Metal Surfaces—Item No. 21253

SAE CORROSION STANDARDS

- J2635 Filiform Corrosion Test Procedure for Painted Aluminum Wheels and Painted Aluminum Wheel Trim
- J2800 Laboratory Corrosion/Fatigue Testing of Vehicle Suspension Coil Springs
- J2334 Laboratory Cyclic Corrosion Test
- J2636 Corrosion Test Master Establishment
- J1950 Proving Ground Vehicle Corrosion Testing
- J1976 Outdoor Weathering of Exterior Materials
- J1617 Body Corrosion-A Comprehensive Introduction

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION (ISO)

- ISO 6509 Corrosion of metals and alloys -- Determination of dezincification resistance of brass
- ISO 7384 Corrosion tests in artificial atmosphere -- General requirements
- ISO 7441 Corrosion of metals and alloys -- Determination of bimetallic corrosion in outdoor exposure corrosion tests
- ISO 7539-1 Corrosion of metals and alloys -- Stress corrosion testing -- Part 1: General guidance on testing procedures
- ISO 7539-2 Corrosion of metals and alloys -- Stress corrosion testing -- Part 2: Preparation and use of bent-beam specimens

