

Corrosion-Related Standards

H.P. Hack and R. Baboian, Section Editors

AMERICAN PETROLEUM INSTITUTE (API)

Tubular Goods

- RP 5L2 Internal Coating of Line Pipe for Non-Corrosive Gas Transmission Service
 RP 5L7 Unprimed Internal Fusion Bonded Epoxy Coating of Line Pipe

Storage Tanks

- RP 12R1 Setting, Maintenance, Inspection, Operation and Repair of Tanks in Production Service
 RP 575 Inspection of Atmospheric & Low-Pressure Storage Tanks
 RP 651 Cathodic Protection of Aboveground Storage Tanks
 RP 652 Lining of Aboveground Petroleum Storage Tank Bottoms
 Std 653 Tank Inspection, Repair, Alteration and Reconstruction
 RP 1604 Closure of Underground Petroleum Storage Tanks
 RP 1615 Installation of Underground Petroleum Storage Systems
 RP 1631 Interior Lining of Underground Storage Tanks
 RP 1632 Cathodic Protection of Underground Petroleum Storage Tanks and Piping Systems
 Std 2610 Design, Construction, Operation, Maintenance & Inspection of Terminal and Tank Facilities

AMERICAN WATER WORKS ASSOCIATION (AWWA)

- C116/A21.16 ANSI Standard for Protective Fusion-Bonded Epoxy Coating for the Interior and Exterior Surfaces of Ductile-Iron and Gray-Iron Fittings for Water Supply Service
 C203 Coal-Tar Protective Coatings and Linings for Steel Water Pipelines—Enamel and Tape—Hot Applied (Includes addendum C203a)
 C205 Cement-Mortar Protective Lining and Coating for Steel Water Pipe—(100 mm) and Larger—Shop Applied
 C209 Cold-Applied Tape Coatings for the Exterior of Special Sections, Connections, and Fittings for Steel Water Pipelines
 C210 Liquid-Epoxy Coating Systems for the Interior and Exterior of Steel Water Pipelines
 C213 Fusion-Bonded Epoxy Coating for the Interior and Exterior of Steel Water Pipelines
 C214 Tape Coating Systems for the Exterior of Steel Water Pipelines
 C218 Coating the Exterior of Aboveground Steel Water Pipelines and Fittings
 C222 Polyurethane Coatings for the Interior and Exterior of Steel Water Pipelines and Fittings
 D102 Coating Steel Water-Storage Tanks
 D104 Automatically Controlled, Impressed-Current Cathodic Protection for Interior of Steel Water Tanks
 D130 Flexible-Membrane-Lining and Floating-Cover Materials for Potable Water Storage

ASME INTERNATIONAL

- B31G Manual: Determining Remaining Strength of Corroded Pipelines: Supplement to B31 Code-Pressure Piping

ASTM INTERNATIONAL

Corrosion of Metals

- A 262 Standard Practices for Detecting Susceptibility to Intergranular Attack in Austenitic Stainless Steels
 A 763 Standard Practices for Detecting Susceptibility to Intergranular Attack in Ferritic Stainless Steels
 G 1 Standard Practice for Preparing, Cleaning, and Evaluating Corrosion Test Specimens
 G 2 Standard Test Method for Corrosion Testing of Products of Zirconium, Hafnium, and their Alloys in Water at 633°K or in Steam at 673°K [Metric]
 G 4 Standard Guide for Conducting Corrosion Coupon Tests in Field Applications
 G 15 Standard Terminology Relating to Corrosion and Corrosion Testing
 G 16 Standard Guide for Applying Statistics to Analysis of Corrosion Data
 G 28 Standard Test Methods of Detecting Susceptibility to Intergranular Corrosion in Wrought, Nickel-Rich, Chromium-Bearing Alloys

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- G 31 Standard Practice for Laboratory Immersion Corrosion Testing of Metals
- G 34 Standard Test Method for Exfoliation Corrosion Susceptibility in 2XXX and 7XXX Series Aluminum Alloys (EXCO Test)
- G 44 Standard Practice for Exposure of Metals and Alloys by Alternate Immersion in Neutral 3.5% Sodium Chloride Solution
- G 46 Standard Guide for Examination and Evaluation of Pitting Corrosion
- G 48 Standard Test Methods for Pitting and Crevice Corrosion Resistance of Stainless Steels and Related Alloys by Use of Ferric Chloride Solution
- G 52 Standard Practice for Exposing and Evaluating Metals and Alloys in Surface Seawater
- G 54 Standard Practice for Simple Static Oxidation Testing
- G 66 Standard Test Method for Visual Assessment of Exfoliation Corrosion Susceptibility of 5XXX Series Aluminum Alloys (ASSET Test)
- G 67 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)
- G 78 Standard Guide for Crevice Corrosion Testing of Iron-Base and Nickel-Base Stainless Alloys in Seawater and Other Chloride-Containing Aqueous Environments
- G 79 Standard Practice for Evaluation of Metals Exposed to Carburization Environments
- G 107 Standard Guide for Formats for Collection and Compilation of Corrosion Data for Metals for Computerized Database Input
- G 109 Standard Test Method for Determining the Effects of Chemical Admixtures on the Corrosion of Embedded Steel Reinforcement in Concrete
- G 110 Standard Practice for Evaluating Intergranular Corrosion Resistance of Heat Treatable Aluminum Alloys by Immersion in Sodium Chloride + Hydrogen Peroxide Solution
- G 111 Standard Guide for Corrosion Tests in High Temperature or High Pressure Environment, or Both
- G 112 Standard Guide for Conducting Exfoliation Corrosion Tests in Aluminum Alloys
- G 117 Standard Guide for Calculating and Reporting Measures of Precision Using Data from Interlaboratory Wear or Erosion Tests
- G 135 Standard Guide for Computerized Exchange of Corrosion Data for Metals
- G 142 Standard Test Method for Determination of Susceptibility of Metals to Embrittlement in Hydrogen Containing Environments at High Pressure, High Temperature, or Both
- G 146 Standard Practice for Evaluation of Disbonding of Bimetallic Stainless Alloy/Steel Plate for Use in High-Pressure, High-Temperature Refinery Hydrogen Service
- G 157 Standard Guide for Evaluating the Corrosion Properties of Wrought Iron- and Nickel-Based Corrosion Resistant Alloys for the Chemical Process Industries
- G 161 Standard Guide for Corrosion-Related Failure Analysis
- G 170 Standard Guide for Evaluating and Qualifying Oilfield and Refining Corrosion Inhibitors in the Laboratory

Corrosion of Non-Metals

- G 131 Standard Practice for Cleaning of Materials and Components by Ultrasonic Techniques
- G 166 Standard Guide for Statistical Analysis of Service Life Data

Corrosion of Pipeline Coatings

- G 6 Standard Test Method for Abrasion Resistance of Pipeline Coatings
- G 8 Standard Test Methods for Cathodic Disbonding of Pipeline Coatings
- G 9 Standard Test Method for Water Penetration into Pipeline Coatings
- G 11 Standard Test Method for Effects of Outdoor Weathering on Pipeline Coatings
- G 12 Standard Test Method for Nondestructive Measurement of Film Thickness of Pipeline Coatings on Steel
- G 17 Standard Test Method for Penetration Resistance of Pipeline Coatings (Blunt Rod)
- G 19 Standard Test Method for Disbonding Characteristics of Pipeline Coatings by Direct Soil Burial
- G 20 Standard Test Method for Chemical Resistance of Pipeline Coatings
- G 42 Standard Test Method for Cathodic Disbonding of Pipeline Coatings Subjected to Elevated Temperatures
- G 62 Standard Test Methods for Holiday Detection in Pipeline Coatings
- G 80 Standard Test Method for Specific Cathodic Disbonding of Pipeline Coatings
- G 95 Standard Test Method for Cathodic Disbondment Test of Pipeline Coatings (Attached Cell Method)

Atmospheric Corrosion

- B 117 Standard Practice for Operating Salt Spray (Fog) Apparatus
- B 368 Standard Test Method for Copper-Accelerated Acetic Acid-Salt Spray (Fog) Testing (CASS Test)

B 537	Standard Practice for Rating of Electroplated Panels Subjected to Atmospheric Exposure
B 810	Standard Test Method for Calibration of Atmospheric Corrosion Test Chambers by Change in Mass of Copper Coupons
B 827	Practice for Conducting Mixed Flowing Gas (MFG) Environmental Tests
D 2059	Standard Test Method for Resistance of Zippers to Salt Spray (Fog)
D 4585	Standard Practice for Testing Water Resistance of Coatings Using Controlled Condensation
G 7	Standard Practice for Atmospheric Environmental Exposure Testing of Nonmetallic Materials
G 33	Standard Practice for Recording Data from Atmospheric Corrosion Tests of Metallic-Coated Steel Specimens
G 50	Standard Practice for Conducting Atmospheric Corrosion Tests on Metals
G 60	Standard Test Method for Conducting Cyclic Humidity Tests
G 84	Standard Practice for Measurement of Time-of-Wetness on Surfaces Exposed to Wetting Conditions as in Atmospheric Corrosion Testing
G 85	Standard Practice for Modified Salt Spray (Fog) Testing
G 87	Standard Practice for Conducting Moist SO ₂ Tests
G 90	Standard Practice for Performing Accelerated Outdoor Weathering of Nonmetallic Materials Using Concentrated Natural Sunlight
G 91	Standard Practice for Monitoring Atmospheric SO ₂ Using the Sulfation Plate Technique
G 92	Standard Practice for Characterization of Atmospheric Test Sites
G 101	Standard Guide for Estimating the Atmospheric Corrosion Resistance of Low-Alloy Steels
G 113	Standard Terminology Relating to Natural and Artificial Weathering Tests of Nonmetallic Materials
G 116	Standard Practice for Conducting Wire-on-Bolt Test for Atmospheric Galvanic Corrosion
G 140	Standard Test Method for Determining Atmospheric Chloride Deposition Rate by Wet Candle Method
G 141	Standard Guide for Addressing Variability in Exposure Testing on Nonmetallic Materials
G 147	Standard Practice for Conditioning and Handling of Nonmetallic Materials for Natural and Artificial Weathering Tests
G 149	Standard Practice for Conducting the Washer Test for Atmospheric Galvanic Corrosion
G 156	Standard Practice for Selecting and Characterizing Weathering Reference Materials Used to Monitor Consistency of Conditions in an Exposure Test

Environmentally Influenced Cracking

A 143	Standard Practice for Safeguarding Against Embrittlement of Hot-Dip Galvanized Structural Steel Products and Procedure for Detecting Embrittlement
B 577	Standard Test Methods for Detection of Cuprous Oxide (Hydrogen Embrittlement Susceptibility) in Copper
B 858	Standard Test Method for Determination of Susceptibility to Stress Corrosion Cracking in Copper Alloys Using an Ammonia Vapor Test
C 692	Standard Test Method for Evaluating the Influence of Thermal Insulations on External Stress Corrosion Cracking Tendency of Austenitic Stainless Steel
F 326	Standard Test Method for Electronic Measurement for Hydrogen Embrittlement from Cadmium-Electroplating Processes
F 519	Standard Test Method for Mechanical Hydrogen Embrittlement Evaluation of Plating Processes and Service Environments
F 945	Standard Test Method for Stress-Corrosion of Titanium Alloys by Aircraft Engine Cleaning Materials
G 30	Standard Practice for Making and Using U-Bend Stress-Corrosion Test Specimens
G 35	Standard Practice for Determining the Susceptibility of Stainless Steels and Related Nickel-Chromium-Iron Alloys to Stress-Corrosion Cracking in Polythionic Acids
G 36	Standard Practice for Evaluating Stress-Corrosion-Cracking Resistance of Metals and Alloys in a Boiling Magnesium Chloride Solution
G 37	Standard Practice for Use of Mattsson's Solution of pH 7.2 to Evaluate the Stress-Corrosion Cracking Susceptibility of Copper-Zinc Alloys
G 38	Standard Practice for Making and Using C-Ring Stress-Corrosion Test Specimens
G 39	Standard Practice for Preparation and Use of Bent-Beam Stress-Corrosion Test Specimens
G 41	Standard Practice for Determining Cracking Susceptibility of Metals Exposed Under Stress to a Hot Salt Environment
G 47	Standard Test Method for Determining Susceptibility to Stress-Corrosion Cracking of 2XXX and 7XXX Aluminum Alloy Products
G 49	Standard Practice for Preparation and Use of Direct Tension Stress-Corrosion Test Specimens
G 58	Standard Practice for Preparation of Stress-Corrosion Test Specimens for Weldments
G 64	Standard Classification of Resistance to Stress-Corrosion Cracking of Heat-Treatable Aluminum Alloys

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- G 103 Standard Test Method for Performing Stress-Corrosion Cracking Resistance of Low Copper 7XXX Series Al-Zn-Mg-Cu Alloys in Boiling 6% Sodium Chloride Solution
- G 123 Standard Test Method for Evaluating Stress-Corrosion Cracking of Stainless Alloys with Different Nickel Content in Boiling Acidified Sodium Chloride Solution
- G 129 Standard Practice for Slow Strain Rate Testing to Evaluate the Susceptibility of Metallic Materials to Environmentally Assisted Cracking
- G 139 Standard Test Method for Determining Stress-Corrosion Cracking Resistance of Heat-Treatable Aluminum Alloy Products Using Breaking Load Method
- G 148 Standard Practice for Evaluation of Hydrogen Uptake, Permeation, and Transport in Metals by an Electrochemical Technique
- G 168 Standard Practice for Making and Using Precracked Double Beam Stress Corrosion Specimens

Wear and Abrasion

- D 2809 Standard Test Method for Cavitation Corrosion and Erosion-Corrosion Characteristics of Aluminum Pumps with Engine Coolants
- F 897 Standard Test Method for Measuring Fretting Corrosion of Osteosynthesis Plates and Screws
- G 32 Standard Test Method for Cavitation Erosion Using Vibratory Apparatus
- G 40 Standard Terminology Relating to Wear and Erosion
- G 65 Standard Test Method for Measuring Abrasion Using the Dry Sand/Rubber Wheel Apparatus
- G 73 Standard Practice for Liquid Impingement Erosion Testing
- G 75 Standard Test Method for Determination of Slurry Abrasivity (Miller Number) and Slurry Abrasion Response of Materials (SAR Number)
- G 76 Standard Test Method for Conducting Erosion Tests by Solid Particle Impingement Using Gas Jets
- G 77 Standard Test Method for Ranking Resistance of Materials to Sliding Wear Using Block-on-Ring Wear Test
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- G 99 Standard Test Method for Wear Testing with a Pin-on-Disk Apparatus
- G 105 Standard Test Method for Conducting Wet Sand/Rubber Wheel Abrasion Tests
- G 118 Standard Guide for Recommended Data Format of Wear Test Data Suitable for Databases
- G 119 Standard Guide for Determining Synergism Between Wear and Corrosion
- G 134 Standard Test Method for Erosion of Solid Materials by a Cavitating Liquid Jet
- G 163 Standard Guide for Digital Data Acquisition in Wear and Friction Measurements

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- G 51 Standard Test Method for Measuring pH of Soil for Use in Corrosion Testing
- G 57 Standard Test Method for Field Measurement of Soil Resistivity Using the Wenner Four-Electrode Method
- G 97 Standard Test Method for Laboratory Evaluation of Magnesium Sacrificial Anode Test Specimens for Underground Applications
- G 158 Standard Guide for Three Methods of Assessing Buried Steel Tanks
- G 160 Standard Practice for Evaluating Microbial Susceptibility of Nonmetallic Materials by Laboratory Soil Burial
- G 162 Standard Practice for Conducting and Evaluating Laboratory Corrosion Tests in Soils
- G 165 Standard Practice for Determining Rail-to-Earth Resistance

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- B 457 Standard Test Method for Measurement of Impedance of Anodic Coatings on Aluminum
- G 3 Standard Practice for Conventions Applicable to Electrochemical Measurements in Corrosion Testing
- G 5 Test Method for Making Potentiostatic and Potentiodynamic Anodic Polarization Measurements
- G 59 Standard Practice for Conducting Potentiodynamic Polarization Resistance Measurements
- G 61 Standard Test Method for Conducting Cyclic Potentiodynamic Polarization Measurements for Localized Corrosion Susceptibility of Iron-, Nickel-, or Cobalt-Based Alloys
- G 69 Standard Test Method for Measurement of Corrosion Potentials of Aluminum Alloys
- G 71 Standard Guide for Conducting and Evaluating Galvanic Corrosion Tests in Electrolytes
- G 82 Standard Guide for Development and Use of a Galvanic Series for Predicting Galvanic Corrosion Performance
- G 96 Standard Guide for On-Line Monitoring of Corrosion in Plant Equipment (Electrical and Electrochemical Methods)

G 100	Standard Test Method for Conducting Cyclic Galvanostaircase Polarization
G 102	Standard Practice for Calculation of Corrosion Rates and Related Information from Electrochemical Measurements
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G 108	Standard Test Method for Electrochemical Reactivation (EPR) for Detecting Sensitization of AISI Type 304 and 304L Stainless Steels Exposed to Chloride Environments
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B 605	Standard Specification for Electrodeposited Coatings of Tin-Nickel Alloy
B 650	Standard Specification for Electrodeposited Engineering Chromium Coatings on Ferrous Substrates
B 651	Standard Test Method for Measurement of Corrosion Sites in Nickel Plus Chromium or Copper Plus Nickel Plus Chromium Electroplated Surfaces with the Double-Beam Interference Microscope
B 680	Standard Test Method for Seal Quality of Anodic Coatings on Aluminum by Acid Dissolution
B 689	Standard Specification for Electroplated Engineering Nickel Coatings
B 733	Standard Specification for Autocatalytic (Electroless) Nickel-Phosphorus Coatings on Metal
B 734	Standard Specification for Electrodeposited Copper for Engineering Uses
B 735	Standard Test Method for Porosity in Gold Coatings on Metal Substrates by Nitric Acid Vapor
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B 765	Standard Guide for Selection of Porosity Tests for Electrodeposits and Related Metallic Coatings
B 809	Standard Test Method for Porosity in Metallic Coatings by Humid Sulfur Vapor ("Flowers-of-Sulfur")

Applications

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C 739	Standard Specification for Cellulosic Fiber (Wood-Base) Loose-Fill Thermal Insulation
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D 130	Standard Test Method for Detection of Copper Corrosion from Petroleum Products by the Copper Strip Tarnish Test
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D 1743	Standard Test Method for Determining Corrosion Preventive Properties of Lubricating Greases
D 1838	Standard Test Method for Copper Strip Corrosion by Liquefied Petroleum (LP) Gases
D 2247	Standard Practice for Testing Water Resistance of Coatings in 100 % Relative Humidity
D 2251	Standard Test Method for Metal Corrosion by Halogenated Organic Solvents and Their Admixtures
D 2570	Standard Test Method for Simulated Service Corrosion Testing of Engine Coolants
D 2649	Standard Test Method for Corrosion Characteristics of Solid Film Lubricants
D 2671	Standard Test Methods for Heat-Shrinkable Tubing for Electrical Use
D 2758	Standard Test Method for Engine Coolants by Engine Dynamometer

D 2803	Standard Guide for Testing Filiform Corrosion Resistance of Organic Coatings on Metal
D 2847	Standard Practice for Testing Engine Coolants in Car and Light Truck Service
D 3263	Standard Test Methods for Corrosivity of Solvent Systems for Removing Water-Formed Deposits
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D 4048	Standard Test Method for Detection of Copper Corrosion from Lubricating Grease
D 4340	Standard Test Method for Corrosion of Cast Aluminum Alloys in Engine Coolants Under Heat-Rejecting Conditions
D 4627	Standard Test Method for Iron Chip Corrosion for Water-Dilutable Metalworking Fluids
E 712	Standard Practice for Laboratory Screening of Metallic Containment Materials for Use With Liquids in Solar Heating and Cooling Systems
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E 937	Standard Test Method for Corrosion of Steel by Sprayed Fire-Resistive Material (SFRM) Applied to Structural Members
F 359	Standard Practice for Static Immersion Testing of Unstressed Materials in Nitrogen Tetroxide (N ₂ O ₄)
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F 483	Standard Test Method for Total Immersion Corrosion Test for Aircraft Maintenance Chemicals
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60068-2-18	Environmental testing—Part 2 –18: Tests—Test R and guidance: Water
60068-2-43	Environmental testing—Part 2: Tests—Test Kd: Hydrogen sulphide test for contacts and connections
60068-2-60	Environmental testing—Part 2: Tests—Test Ke: Flowing mixed gas corrosion test
60068-2-66	Environmental testing—Part 2: Test methods—Test Cx: Damp heat, steady state (unsaturated pressurized vapour)
60068-2-67	Environmental testing—Part 2: Tests—Test Cy: Damp heat, steady state, accelerated test primarily intended for components
60068-2-74	Environmental testing—Part 2: Test Xc: Fluid contamination
TR 60355	An appraisal of the problems of accelerated testing for atmospheric corrosion
60426	Test methods for determining electrolytic corrosion with insulating materials
60512-11-7	Electrochemical components for electronic equipment—Basic testing procedures and measuring methods—Part 11: Climatic tests—Section 7: Test 11g: Flowing mixed gas corrosion test
60512-11-14	Electromechanical components for electronic equipment—Basic testing procedures and measuring methods—Part 11: Climatic tests—Section 14: Test 11p: Flowing single gas corrosion test
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INTERNATIONAL ORGANIZATION FOR STANDARDIZATION (ISO)

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Metals and Alloys

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TR 10129	Plain bearings—Testing of bearing metals—Resistance to corrosion by lubricants under static conditions
TR 10217	Solar energy—Water heating systems—Guide to material selection with regard to internal corrosion
TR 10271	Dentistry—Determination of tarnish and corrosion of metals and alloys
TS 12928	Lubricants, industrial oils and related products (class L)—Family R (Products for temporary protection against corrosion)—Guidelines for establishing specifications
13402	Surgical and dental hand instruments—Determination of resistance against autoclaving, corrosion and thermal exposure (available in English only)
13806	Vitreous and porcelain enamels—Corrosion tests in closed systems

NACE INTERNATIONAL

General

RP0197	Standard Format for Computerized Electrochemical Polarization Curve Data Files
RP0198	The Control of Corrosion Under Thermal Insulation and Fireproofing Materials—a Systems Approach

RP0199	Installation of Stainless Chromium—Nickel Alloy Roll-Bonded and Explosion-Bonded Clad Plate in Air Pollution Control Equipment
RP0294	Design, Fabrication, and Inspection of Tanks for the Storage of Concentrated Sulfuric Acid and Oleum at Ambient Temperatures
RP0300	Pilot Scale Evaluation of Corrosion and Scale Control Additives for Open Re-circulating Cooling Water Systems
RP0390	Maintenance and Rehabilitation Considerations for Corrosion Control of Existing Steel-Reinforced Concrete Structures
RP0487	Considerations in the Selection and Evaluation of Rust Preventives and Vapor Corrosion Inhibitors for Interim (Temporary) Corrosion Protection
RP0497	Field Corrosion Evaluation Using Metallic Test Specimens
RP0590	Recommended Practice for Prevention, Detection, and Correction of Deaerator Cracking
RP0690	Standard Format for Collection and Compilation of Data for Computerized Material Corrosion Resistance Database Input
TM0193	Laboratory Corrosion Testing of Metals in Static Chemical Cleaning Solutions at Temperatures Below 93°C(200°F)
TM0299	Corrosion Control and Monitoring in Seawater Injection Systems
TM0397	Screening Tests for Evaluating the Effectiveness of Gypsum Scale Removers
TM0398	Laboratory Corrosion Testing of Metals in Static Cleaning Solutions at Temperatures Above 100°C (212°F)
TM0399	Test Method for Phosphonate in Brine
TM0498	Standard Test Method for Measuring the Carburization of Alloys for Ethylene Cracking Furnace Tubes
TM0499	Immersion Corrosion Testing of Ceramic Materials

Cathodic Protection

RP0169	Control of External Corrosion on Underground or Submerged Metallic Piping Systems
RP0572	Design, Installation, Operation, and Maintenance of Impressed Current Deep Groundbeds
RP0174	Corrosion Control of Electric Underground Residential Distribution Systems
RP0575	Design, Installation, Operation, and Maintenance of Internal Cathodic Protection Systems in Oil Treating Vessels
RP0675	Control of Corrosion on Offshore Steel Pipelines
RP0176	Corrosion Control of Steel, Fixed Offshore Platforms Associated with Petroleum Production
RP0177	Mitigation of Alternating Current and Lightning Effects on Metallic Structures and Corrosion Control Systems
RP0180	Cathodic Protection of Pulp and Paper Mill Effluent Clarifiers
RP0285	Control of External Corrosion on Metallic Buried, Partially Buried, or Submerged Liquid Storage Systems
RP0186	Application of Cathodic Protection for Well Casings
RP0286	The Electrical Isolation of Cathodically Protected Pipelines
RP0387	Metallurgical and Inspection Requirements for Cast Sacrificial Anodes for Offshore Applications
RP0388	Impressed Current Cathodic Protection of Internal Submerged Surfaces of Steel Water Storage Tanks
RP0100	Cathodic Protection of Pre-stressed Concrete Cylinder Pipelines
RP0193	External Cathodic Protection of On-Grade Metallic Storage Tank Bottoms
RP0194	Criteria and Test Methods for Cathodic Protection of Lead Sheath Cable
RP0196	Galvanic Anode Cathodic Protection of Internal Submerged Surfaces of Steel Water Storage Tanks
RP0492	Metallurgical and Inspection Requirements for Offshore Pipeline Bracelet Anodes
RP0572	Design, Installation, Operation and Maintenance of Impressed Current Deep Groundbeds
RP0575	Internal Cathodic Protection Systems in Oil-Treating Vessels
TM0294	Testing of Embeddable Anodes for Use in Cathodic Protection of Atmospherically Exposed Steel-Reinforced Concrete
TM0497	Measurement Techniques Related to Criteria for Cathodic Protection on Underground or Submerged Metallic Piping Systems

Oil Production

MR0174	Recommendations for Selecting Inhibitors for Use as Sucker Rod Thread Lubricants
MR0175	Sulfide Stress Cracking Resistant Metallic Materials for Oil Field Equipment
MR0176	Metallic Materials for Sucker Rod Pumps for Hydrogen Sulfide Environments
RP0175	Control of Internal Corrosion in Steel Pipelines and Piping Systems
RP0181	Liquid Applied Internal Protective Linings and Coatings for Oil Field Production Equipment

RP0273	Handling and Proper Usage of Inhibited Oilfield Acids (API Bulletin D-15) (Joint API-NACE Project)
RP0278	Design and Operation of Stripping Columns for Removal of Oxygen from Water
RP0475	Selection of Metallic Materials to be Used in All Phases of Water Handling for Injection into Oil Bearing Formations
RP0775	Preparation and Installation of Corrosion Coupons and Interpretation of Test Data in Oil Production Practice
RP0191	The Application of Internal Plastic Coatings for Oilfield Tubular Goods and Accessories
RP0192	Monitoring Corrosion in Oil and Gas Production with Iron Counts
RP0291	Care, Handling, and Installation of Internal Plastic Coatings for Oilfield Tubular Goods and Accessories
RP0296	Guidelines for Detection, Repair and Mitigation of Cracking of Existing Petroleum Refinery Pressure Vessels in Wet H ₂ S Environments
RP0472	Methods and Controls to Prevent In-Service Environmental Cracking of Carbon Steel Weldments in Corrosive Petroleum Refining Environments
RP0475	Selection of Metallic Materials to be Used in all Phases of Water Handling for Injection into Oil-Bearing Formations
RP0491	Worksheet for the Selection of Oilfield Non-metallic Seal Systems
TM0173	Methods for Determining Water Quality for Subsurface Injection Using Membrane Filters
TM0177	Testing of Metals for Resistance to Sulfide Stress Cracking at Ambient Temperatures
TM0187	Evaluating Elastomeric Materials in Sour Gas Environments
TM0275	Performance Testing of Sucker Rods by the Mixed String, Alternate Rod Method
TM0284	Evaluation of Pipeline Steels for Resistance to Stepwise Cracking
TM0374	Laboratory Screening Tests to Determine the Ability of Scale Inhibitors to Prevent Precipitation of CaSO ₄ and CaCO ₃ from Solution
TM0194	Field Monitoring of Bacterial Growth in Oilfield Systems
TM0197	Laboratory Screening Test to Determine the Ability of Scale Inhibitors to Prevent the Precipitation of Barium Sulfate and/or Strontium Sulfate from Solution (For Oil and Gas Production Systems)
TM0198	Slow Strain Rate Test Method for Screening Corrosion-Resistant Alloys (CRAs) for Stress Corrosion Cracking in Sour Oilfield Service
TM0296	Evaluating Elastomeric Materials in Sour Liquid Environments
TM0298	Evaluating the Compatibility of FRP Pipe and Tubulars with Oilfield Environments

Process and Power Industries

RP0170	Protection of Austenitic Stainless Steel from Polythionic Acid Stress Corrosion Cracking During Shutdown of Refinery Equipment
RP0173	Collection and Identification of Corrosion Products
RP0182	Initial Conditioning of Cooling Water Equipment
RP0189	On-Line Monitoring of Cooling Waters
RP0472	Methods and Controls to Prevent In-Service Cracking of Carbon Steel (P-1) Welds in Corrosive Petroleum Refining Environments
RP0292	Installation of Thin Metallic Wallpaper Lining in Air Pollution Control and Other Process Equipment
TM0169	Laboratory Corrosion Testing of Metals for the Process Industries
TM0171	Autoclave Corrosion Testing of Metals for the Process Industries
TM0274	Dynamic Corrosion Testing of Metals in High Temperature Water
TM0286	Cooling Water Test Units Incorporating Heat Transfer Surfaces
TM0199	Standard Test Method for Measuring Deposit Mass Loading (Deposit Weight Density) Values for Boiler Tubes by the Glass-Bead-Blasting Technique

Pipeline Coatings

MR0274	Material Requirements in Prefabricated Plastic Films for Pipeline Coatings
RP0185	Extruded Polyolefin Resin Coating Systems for Underground or Submerged Pipe
RP0274	High Voltage Electrical Inspection of Pipeline Coatings Prior to Installation
RP0275	Application of Organic Coating to the External Surface of Steel Pipe for Underground Service
RP0276	Extruded Asphalt Mastic Type Protective Coatings for Underground Pipelines
RP0375	Application and Handling of Wax-Type Protective Coatings and Wrapper Systems for Underground Pipelines
RP0190	External Protective Coatings for Joints, Fittings and Valves on Metallic Underground or Submerged Pipelines and Piping Systems
RP0200	Steel-Cased Pipeline Practices
RP0375	Wax Coating Systems for Underground Piping Systems

RP0490	Holiday Detection of Fusion-Bonded Epoxy External Pipeline Coatings of 250 to 760 microns (10 to 30 mils)
RP0492	Metallurgical and Inspection Requirements for Offshore Pipeline Bracelet Anodes

Protective Coatings

TM0174	Laboratory Methods for the Evaluation of Protective Coatings Used as Lining Materials in Immersion Service
TM0183	Evaluation of Internal Plastic Coatings for Corrosion Control
TM0184	Accelerated Test Procedures for Screening Atmospheric Surface Coating Systems for Offshore Platforms and Equipment
TM0185	Evaluation of Internal Plastic Coatings for Corrosion Control of Tubular Goods by Autoclave Testing
TM0186	Holiday Detection of Internal Tubular Coatings of 10 to 30 mils (0.25 to 0.76 mm) Dry Film Thickness
TM0384	Holiday Detection of Internal Tubular Coatings of Less Than 10 mils (0.25 mm) Dry Film Thickness
TM0192	Evaluating Elastomeric Materials in Carbon Dioxide Decompression Environments
TM0196	Chemical Resistance of Polymeric Materials by Periodic Evaluation
TM0297	Effects of High-Temperature High-Pressure Carbon Dioxide Decompression on Elastomeric Materials
RP0178	Design, Fabrication and Surface Finish of Metal Tanks and Vessels to be Lined for Chemical Immersion Service
RP0184	Repair of Lining Systems
RP0188	Discontinuity (Holiday) Testing of Protective Coatings
RP0281	Method for Conducting Coating (Paint) Panel Evaluation Testing in Atmospheric Exposure
RP0287	Field Measurement of Surface Profile of Abrasive Blast Cleaned Steel Surfaces Using a Replica Tape
RP0288	Inspection of Linings on Steel and Concrete
RP0372	Method for Lining Lease Production Tanks with Coal Tar Epoxy
RP0376	Monolithic Organic Corrosion Resistant Floor Surfacing
RP0386	Applications of a Coating System to Interior Surfaces of Covered Railroad Hopper Cars in Plastic, Food and Chemical Service
RP0487	Considerations in the Selection and Evaluation of Interim Petroleum-Based Coatings
RP0190	External Protective Coatings for Joints, Fittings, and Valves on Metallic Underground or Submerged Pipeline and Piping Systems
RP0297	Maintenance Painting of Electrical Substation Apparatus Including Flow Coating of Transformer Radiators
RP0295	Application of a Coating System to Interior Surfaces of New and Used Rail Tank Cars
RP0298	Sheet Rubber Linings for Abrasion and Corrosion Service
RP0394	Application, Performance and Quality Control of Paint-Applied, Fusion-Bonded Epoxy External Pipe Coating
RP0395	Fusion-Bonded Epoxy Coating of Steel Reinforcing Bars
RP0398	Recommendations for Training and Qualifying Personnel as Railcar Coating and Lining Inspectors
RP0399	Plant Applied, External Coal Tar Enamel Pipe Coating System: Application, Performance and Quality Control
RP0495	Guidelines for Qualifying Personnel as Abrasive Blasters and Coatings and Linings Applicators in the Rail Industries
RP0591	Coatings and Concrete Surfaces in Non-Immersion and Atmospheric Service
RP0592	Application of a Coating System to Interior Surfaces of New and Used Rail Tank Cars in Concentrated (90 to 98%) Sulfuric Acid Service
RP0692	Application of a Coating System to Exterior Surfaces of Steel Rail Cars

SAE INTERNATIONAL

J401	Selection and Use of Steels
J1434	Wrought Aluminum Applications Guidelines
J1562	Selection of Zinc and Zinc-Alloy (Hot-Dipped and Electrodeposited) Coated Steel Sheet
J1677	Tests and Procedures for SAE Low-Carbon Steel and Copper Nickel Tubing
J1755	Guidelines for Usage of Stainless Steel and Bimetal for Exterior Automotive Bright Trim
J2334	Cosmetic Corrosion Lab Test

STEEL STRUCTURES PAINTING COUNCIL (SSPC)

Surface Preparation (SP)

SP COM	Surface Preparation Commentary for Steel and Concrete Substrates
SP 1	Solvent Cleaning
SP 2	Hand Tool Cleaning

SP 3	Power Tool Cleaning
SP 5/NACE 1	White Metal Blast Cleaning
SP 6/NACE 3	Commercial Blast Cleaning
SP 7/NACE 4	Brush-Off Blast Cleaning
SP 8	Pickling
SP 10/NACE 2	Near-White Blast Cleaning
SP 11	Power Tool Cleaning to Bare Metal
SP 12/NACE 5	Surface Preparation and Cleaning of Steel and Other Hard Materials by High- and Ultrahigh-Pressure Water Jetting Prior to Recoating
SP 13/NACE 6	Surface Preparation of Concrete
SP 14/NACE 8	Industrial Blast Cleaning

Technology Reports (TR)

TR 1/NACE 6G194	Thermal Pre-Cleaning
TR 2/NACE 6G198	Wet Abrasive Blast Cleaning

Abrasives (AB)

AB 1	Mineral and Slag Abrasives
AB 2	Cleanliness of Recycled Ferrous Metallic Abrasives
AB 3	Newly Manufactured or Re-Manufactured Steel Abrasives

Painting Systems (PS) and Coating Systems (CS)

PS COM	Commentary on Painting Systems
PS Guide 1.00	Guide for Selecting Oil Base Painting Systems
PS 1.09	Three-Coat Oil Base Zinc Oxide Painting System (Without Lead or Chromate Pigment)
PS 1.10	Four-Coat Oil Base Zinc Oxide Painting System (Without Lead or Chromate Pigment)
PS 1.12	Three-Coat Oil Base Zinc Chromate Painting System
PS 1.13	One-Coat Oil Base Slow Drying Maintenance Painting System (Without Lead or Chromate Pigments)
PS Guide 2.00	Guide for Selecting Alkyd Painting Systems
PS Guide 3.00	Guide for Selecting Phenolic Painting Systems
PS Guide 4.00	Guide for Selecting Vinyl Painting Systems
PS 4.02	Four-Coat Vinyl Painting System (For Fresh Water, Chemical, and Corrosive Atmospheres)
PS 4.04	Four-Coat White or Colored Vinyl Painting System (For Fresh Water, Chemical, and Corrosive Atmospheres)
PS Guide 7.00	Guide for Selecting One-Coat Shop Painting Systems
PS Guide 8.00	Guide to Topcoating Zinc-Rich Primers
PS 9.01	Cold-Applied Asphalt Mastic Painting System with Extra-Thick Film
PS 10.01	Hot-Applied Coal Tar Enamel Painting System
PS 10.02	Cold-Applied Coal Tar Mastic Painting System
PS 11.01	Black (or Dark Red) Coal Tar Epoxy Polyamide Painting System
PS Guide 12.00	Guide to Selecting Zinc-Rich Coating Systems
PS 12.01	One-Coat Zinc-Rich Painting System
PS 13.01	Epoxy Polyamide Painting System
PS 14.01	Steel Joist Shop Painting System
PS Guide 15.00	Guide for Selecting Chlorinated Rubber Painting Systems
PS 15.01	Chlorinated Rubber Painting System for Salt Water Immersion
PS 15.02	Chlorinated Rubber Painting System for Fresh Water Immersion
PS 15.03	Chlorinated Rubber Painting System for Marine and Industrial Environments
PS 15.04	Chlorinated Rubber Painting System for Field Application Over a Shop-Applied Solvent Base Inorganic Zinc-Rich Primer
PS 16.01	Silicone Alkyd Painting System for New Steel
PS Guide 17.00	Guide for Selecting Urethane Painting Systems
PS 18.01	Three-Coat Latex Painting System
PS Guide 19.00	Guide for Selecting Painting Systems for Ship Bottoms
PS Guide 20.00	Guide for Selecting Painting Systems for Boottoppings
PS Guide 21.00	Guide for Selecting Painting Systems for Topsides
PS Guide 22.00	Guide for Selecting One-Coat Preconstruction or Prefabrication Painting Systems
CS 23.00(I)	Interim Specification for the Application of Thermal Spray Coatings (Metallizing) of Aluminum, Zinc, and Their Alloys and Composites for the Corrosion Protection of Steel
PS 24.00	Latex Painting System for Industrial and Marine Atmospheres, Performance-Based

PS 26.00	Aluminum Pigmented Epoxy Coating System Materials Specification, Performance-Based—Type I, for Use over Blast Cleaned Steel, Type II, for Use over Hand Cleaned Steel
PS 27.00	Alkyd Coating System Materials Specification, Performance-Based

Paints and Coatings (PAINT)

Paint COM	Commentary on Paint Specifications
Paint 5	Zinc Dust, Zinc Oxide, and Phenolic Varnish Paint
Paint 8	Aluminum Vinyl Paint
Paint 9	White (or Colored) Vinyl Paint
Paint 11	Red Iron Oxide, Zinc Chromate, Raw Linseed Oil, and Alkyd Primer
Paint 12	Cold-Applied Asphalt Mastic (Extra Thick Film)
Paint 15	Steel Joist Shop Primer
Paint 16	Coal Tar Epoxy-Polyamide Black (or Dark Red) Paint
Paint 17	Chlorinated Rubber Inhibitive Primer
Paint 18	Chlorinated Rubber Intermediate Coat Paint
Paint 19	Chlorinated Rubber Topcoat Paint
Paint 20	Zinc-Rich Primers (Type I, Inorganic, and Type II, Organic)
Paint 21	White or Colored Silicone Alkyd Paint
Paint 22	Epoxy-Polyamide Paints (Primer, Intermediate, and Topcoat)
Paint 23	Latex Primer for Steel Surfaces
Paint 24	Latex Semigloss Exterior Topcoat
Paint 25	Zinc Oxide, Alkyd, Linseed Oil Primer for Use Over Hand Cleaned Steel, Type I and Type II
Paint 25.1BCS	Zinc Oxide, Alkyd, Linseed Oil Primer for Use Over Blast Cleaned Steel
Paint 26	Slow Drying Linseed Oil Black Maintenance Primer, (Without Lead and Chromate Pigment)
Paint 27	Basic Zinc Chromate-Vinyl Butyral Wash Primer
Paint 28	Water-Borne Epoxy Primer for Steel Surfaces
Paint 29	Zinc Dust Sacrificial Primer, Performance-Based
Paint 30	Weld-Through Inorganic Zinc Primer
Paint 31	Single-Package Waterborne Alkyd Primer for Steel Surfaces, Performance-Based
Paint 32	Coal Tar Emulsion Coating
Paint 33	Coal Tar Mastic, Cold Applied
Paint 34	Water-Borne Epoxy Topcoat for Steel Surfaces
Paint 35	Medium Oil Alkyd Primer (Air Dry/Low Bake), Type I and Type II
Paint 36	Two-Component Weatherable Aliphatic Polyurethane Topcoat, Performance-Based
Paint 101	Aluminum Alkyd Paint (Type I, Leafing and Type II, Non-Leafing)
Paint 102	Black Alkyd Paint
Paint 103	Black Phenolic Paint
Paint 104	White or Tinted Alkyd Paint
Paint 106	Black Vinyl Paint
Paint 108	High-Build Thixotropic Leafing Aluminum Paint

Paint Application (PA)

PA COM	Commentary on Paint Application
PA 1	Shop, Field, and Maintenance Painting of Steel
PA 2	Measurement of Dry Coating Thickness with Magnetic Gages
PA Guide 3	A Guide to Safety in Paint Application
PA Guide 4	Guide to Maintenance Repainting with Oil Base or Alkyd Painting Systems
PA Guide 5	Guide to Maintenance Painting Programs

Qualification Procedures (QP)

QP COM	Commentary on Qualification Procedures
QP 1	Standard Procedure for Evaluating Painting Contractors (Field Application to Complex Industrial Structures)
QP 2	Standard Procedure for the Qualification of Painting Contractors (Field Removal of Hazardous Coatings from Complex Structures)
QP 3	Standard Procedure for Evaluating Qualifications of Shop Painting Applicators
QP 4	Standard Procedure for Evaluating the Qualifications of Contractors Disturbing Hazardous Coatings During Demolition and Repair Work
QP 5	Standard Procedure for Evaluating Qualifications of Coating and Lining Inspection Companies

Technology Guides (GUIDE)

Guide 6	Guide for Containing Debris Generated During Paint Removal Operations
Guide 9	Guide for Atmospheric Testing of Coatings in the Field
Guide 10	Guide to Specifying Coatings Conforming to Volatile Organic Compound (VOC) Content Requirements
Guide 11	Guide for Coating Concrete
Guide 13	Guide for the Identification and Use of Industrial Coating Material in Computerized Product Databases
Guide 14	Guide for the Repair of Imperfections in Galvanized or Inorganic Zinc Coated Steel Using Organic Zinc-Rich Coating

Test Panel Preparation Methods (ME)

ME 1	Uncontaminated Rusted Steel
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