ACA Standards Update

Welcome to the corrosion related standards report for February 2017.

The standards reporting for 2017 is scheduled against specific interests and as indicated below:

Issue	2017 Standards search for Specific Interests
February	Oil & Gas
Мау	Concrete & CP
August	Protective Coatings
November	Asset Management

This Standards report focuses on Oil & Gas in relation to corrosion.

As previously reported this is in two stages, namely:

1. A global standards and publication focus at 16 January 2017, searching through SAIGLOBAL Publications at https://infostore.saiglobal.com/store, for all current publications and standards relating to corrosion and its prevention for the topic of 'Oil and Gas'.

These results are shown in Tables 1.

- 2. A SAI Global search, as previously reported at http://www.saiglobal.com/online/ for new standards, amendments or drafts for AS, AS/NZS, EN, ANSI, ASTM, BSI, DIN, ETSI, JSA, NSAI and standards and amendments for ISO & IEC published from 16 September 2016 - 16 January 2017, using the key words and key word groups:
- 'durability'.
- 'corrosion' or 'corrosivity' or 'corrosive'; but not 'anodizing' or 'anodize(d)'.
- 'paint' or 'coating'; but not 'anodizing' or 'anodize(d)'.
- 'galvanize' or 'galvanized' or galvanizing'.
- electrochemical' or 'electrolysis' or 'electroplated'.
- 'cathode' or 'cathodic'.
- 'anode' or 'anodic'.
- 'corrosion' and 'concrete' or 'concrete' and 'coatings'.

These results are shown in Table 2.

Summary

1. Through SAIGLOBAL Publications at https://infostore. saiglobal.com/store they were for a search on:

- a) For Titles search on https://infostore.saiglobal.com/store on 16 January 2017 for 'oil and gas and corrosion' there were 47 citations, 0 from AS/ASNZS; see Table 1a for highlights.
- b) For Titles search on https://infostore.saiglobal.com/store on 16 January 2017 for 'oil and corrosion without gas' there were 53 citations, 0 from AS/ASNZS; see Table 2b for highlights.
- c) For Titles search on https://infostore.saiglobal.com/store on 16 January 2017 for 'gas and corrosion without oil' there were 130 citations, 1 from AS/ASNZS; see Table 3c for highlights.
- d) For Titles search on https://infostore.saiglobal.com/store on 16 January 2017 for 'petroleum and corrosion without gas' there were 53 citations, none from AS/ASNZS; see Table 4d for highlights.

A search for 'petroleum and corrosion without oil' produced no new NACE, ISO or ASTM standards not listed previously.

- 1. Across SAIGLOBAL online Standards Publications there was a total of 66 listings of new standards, Drafts and Amendments found that were issued from 16 September 2016 to 16 January 2017; 2 from AS AS/NZS relating to reinforcing corrosion in concrete;
 - a. AS 1012.20.1:2016 Methods of testing concrete - Determination of chloride and sulfate in hardened concrete and aggregates - Nitric acid extraction method
- b. AS 1012.20.2:2016 Methods of testing concrete -Determination of water-soluble chloride in aggregates and hardened concrete.

These results are shown in Table 1b for 'oil and corrosion without gas' high-lights

These results are shown in Table 1b for 'oil and corrosion without gas' high-lights		
ASTM	NACE	ISO
ASTM D4310-10(2015) Standard Test Method for Determination of Sludging and Corrosion Tendencies of Inhibited Mineral Oils	NACE 1D182:2005 Wheel Test Method used for Evaluation of Film-persistent Corrosion Inhibitors for Oilfield Applications	ISO/TS 12928:1999 Lubricants, Industrial Oils and Related Products (Class L) - Family R (Products for Temporary Protection Against Corrosion) - Guidelines for Establishing Specifications
ASTM F1137-11e1 Standard Specification for Phosphate/ Oil Corrosion Protective Coatings for Fasteners	NACE 1F192:2013 Use of Corrosion-Resistant Alloys in Oilfield Environments	ISO 6743-8:1987 Lubricants, Industrial Oils and Related Products (Class L) - Classification - Part 8: Family R (Temporary Protection Against Corrosion)
ASTM G170-06(2012) Standard Guide for Evaluating and Qualifying Oilfield and Refinery Corrosion Inhibitors in the Laboratory	NACE SP 07 75:1999 (R2013) Preparation, Installation, Analysis, and Interpretation of Corrosion Coupons in Oilfield Operations	
ASTM G184-06(2016) Standard Practice for Evaluating and Qualifying Oil Field and Refinery Corrosion Inhibitors Using the Rotating Cage	NACE TM 01 98:2011 Slow Strain Rate Test Method for Screening Corrosion-Resistant Alloys for Stress Corrosion Cracking in Sour Oilfield Service	
ASTM G185-06(2016) Standard Practice for Evaluating and Qualifying Oil Field and Refinery Corrosion Inhibitors Using the Rotating Cylinder Electrode		API
ASTM G205-16 Standard Guide for Determining Emulsion Properties, Wetting Behavior, and Corrosion-Inhibitory Properties of Crude Oils		API 939-C Ed. 1 (2009) Guidelines for Avoiding Sulfidation (sulfidic) Corrosion Failures in Oil Refineries
ASTM G208-12(2016) Standard Practice for Evaluating and Qualifying Oilfield and Refinery Corrosion Inhibitors Using Jet Impingement Apparatus		

Table 1c for 'gas and corrosion without oil' high-lights

AS

AS 60068.2.60-200	3
-------------------	---

Environmental testing - Tests - Test Ke: Flowing mixed gas corrosion test

ISO	ASTM	NACE
ISO 10062:2006 Corrosion Tests in Artificial Atmosphere at Very Low Concentrations of Polluting Gas(es)	ASTM D1838-16 Standard Test Method for Copper Strip Corrosion by Liquefied Petroleum (LP) Gases	NACE SP 01 10:2010 Wet Gas Internal Corrosion Direct Assessment Methodology for Pipelines
ISO 13680:2010 Petroleum and Natural Gas Industries - Corrosion-resistant Alloy Seamless Tubes for use as casing, tubing and coupling stock - Technical delivery conditions	ASTM F363-99(2011) Standard Test Method for Corrosion Testing of Gaskets	NACE SP 02 06:2016 Internal Corrosion Direct Assessment Methodology for Pipelines Carrying Normally Dry Natural Gas (Dg-Icda)
ISO 18797-1:2016 Petroleum, petrochemical and natural gas industries - External corrosion protection of risers by coatings and linings - Part 1: Elastomeric coating systems-polychloroprene or EPDM	ASTM G186-05(2016) Standard Test Method for Determining Whether Gas-Leak-Detector Fluid Solutions Can Cause Stress Corrosion Cracking of Brass Alloys	
ISO 21207:2015 Corrosion Tests in Artificial Atmospheres - Accelerated Corrosion Tests Involving Alternate Exposure to Corrosion- Promoting Gases, Neutral Salt-Spray and Drying		
ISO/DIS 13680 Petroleum and Natural Gas Industries - Corrosion-Resistant Alloy Seamless Tubes for use as Casing, Tubing and Coupling Stock - Technical Delivery Conditions		

Table 1d for 'petroleum and corrosion without gas' high-lights

NACE	ASTM	ISO
NACE 34103:2014 Overview of Sulfidation (Sulfidic) Corrosion in Petroleum Refining Hydroprocessing Units	ASTM D 130 ADJUNCT Adjunct to D130 Copper Strip Corrosion Standard for Petroleum	ISO 4404-1:2012 Petroleum and Related Products - Determination of the Corrosion Resistance of Fire-Resistant Hydraulic Fluids - Part 1: Water-Containing Fluids
NACE SP 01 76:2007 Corrosion Control of Submerged Areas of Permanently Installed Steel Offshore Structures Associated with Petroleum Production	ASTM D7548-16a Standard Test Method for Determination of Accelerated Iron Corrosion in Petroleum Products	ISO 4404-2:2010 Petroleum and Related Products - Determination of the Corrosion Resistance of Fire-Resistant Hydraulic Fluids - Part 2: Non-Aqueous Fluids
NACE SP 02 08:2008 Internal Corrosion Direct Assessment Methodology for Liquid Petroleum Pipelines		

Table 2 below.

Stage 1 Report on SAIGLOBAL Publications at https://infostore.saiglobal.com/store, for all current publications and standards relating to 'oil and gas and corrosion'.

Table 1a for 'oil and gas and corrosion' high-lights

NACE	ISO	EI (Energy Institute)
NACE 1C187:2005 Use of Galvanic Probe Corrosion Monitors in Oil and Gas Drilling and Production Operations	ISO 15156-3:2015 Petroleumand Natural Gas Industries - Materials for Use In H ₂ S-Containing Environments in Oil and Gas Production - Part 3: Cracking-Resistant Cras (Corrosion-Resistant Alloys) and Other Alloys	EI GUIDE CORROSION MGMT. Ed. 1 (2008) Guidance for Corrosion Management in Oil and Gas Production and Processing
NACE 31014:2014 Field Monitoring of Corrosion Rates in Oil and Gas Production Environments Using Electrochemical Techniques	ISO 21457:2010 Petroleum, Petrochemical and Natural Gas Industries - Materials Selection and Corrosion Control for Oil and Gas Production Systems	
NACE 31215:2015 Laboratory Evaluation of Corrosion Inhibitors Used in the Oil and Gas Industry		
NACE 61114:2014 Underdeposit Corrosion (Udc) Testing and Mitigation Methods in the Oil and Gas Industry		
NACE MR 0175 ISO 15156:2015 Petroleum, Petrochemical, and Natural Gas Industries - Materials for Use in H ₂ S- Containing Environments in Oil and Gas Production - Part 1: General Principles for Selection of Cracking-Resistant Materials - Part 2: Cracking-Resistant Carbon and Lowalloy Steels, and the Use of Cast Irons - Part 3: Cracking-Resistant CRAS (Corrosion-Resistant Alloys) and Other Alloys		
NACE SP 01 92:2012 Monitoring Corrosion in Oil and Gas Production with Iron Counts		

ACA STANDARDS UPDATE

Table 1b for 'oil and corrosion without gas' high-lights

ASTM	NACE	ISO
ASTM D4310-10(2015) Standard Test Method for Determination of Sludging and Corrosion Tendencies of Inhibited Mineral Oils	NACE 1D182:2005 Wheel Test Method Used for Evaluation of Film-persistent Corrosion Inhibitors for Oilfield Applications	ISO/TS 12928:1999 Lubricants, Industrial Oils and Related Products (Class L) - Family R (Products for Temporary Protection Against Corrosion) - Guidelines for Establishing Specifications
ASTM F1137-11e1 Standard Specification for Phosphate/ Oil Corrosion Protective Coatings for Fasteners	NACE 1F192:2013 Use of Corrosion-Resistant Alloys in Oilfield Environments	ISO 6743-8:1987 Lubricants, Industrial Oils and Related Products (Class L) - Classification - Part 8: Family R (Temporary Protection Against Corrosion)
ASTM G170-06(2012) Standard Guide for Evaluating and Qualifying Oilfield and Refinery Corrosion Inhibitors in the Laboratory	NACE SP 07 75:1999 (R2013) Preparation, Installation, Analysis, and Interpretation of Corrosion Coupons in Oilfield Operations	
ASTM G184-06(2016) Standard Practice for Evaluating and Qualifying Oil Field and Refinery Corrosion Inhibitors Using the Rotating Cage	NACE TM 01 98:2011 Slow Strain Rate Test Method for Screening Corrosion-Resistant Alloys for Stress Corrosion Cracking in Sour Oilfield Service	
ASTM G185-06(2016) Standard Practice for Evaluating and Qualifying Oil Field and Refinery Corrosion Inhibitors Using the Rotating Cylinder Electrode		АРІ
ASTM G205-16 Standard Guide for Determining Emulsion Properties, Wetting Behavior, and Corrosion-Inhibitory Properties of Crude Oils		API 939-C Ed. 1 (2009) Guidelines for Avoiding Sulfidation (Sulfidic) Corrosion Failures in Oil Refineries
ASTM G208-12(2016) Standard Practice for Evaluating and Qualifying Oilfield and Refinery Corrosion Inhibitors Using Jet Impingement Apparatus		

Table 1c for 'gas and corrosion without oil' high-lights

AS			
AS 60068.2.60-2003 Environmental testing - Tests - Test Ke: Flo	AS 60068.2.60-2003 Environmental testing - Tests - Test Ke: Flowing mixed gas corrosion test		
ISO	ASTM	NACE	
ISO 10062:2006 Corrosion Tests in Artificial Atmosphere At Very Low Concentrations of Polluting Gas(es)	ASTM D1838-16 Standard Test Method for Copper Strip Corrosion by Liquefied Petroleum (LP) Gases	NACE SP 01 10:2010 Wet Gas Internal Corrosion Direct Assessment Methodology for Pipelines	
ISO 13680:2010 Petroleum and Natural Gas Industries - Corrosion-Resistant Alloy Seamless Tubes for Use as Casing, Tubing and Coupling Stock - Technical Delivery Conditions	ASTM F363-99(2011) Standard Test Method for Corrosion Testing of Gaskets	NACE SP 02 06:2016 Internal Corrosion Direct Assessment Methodology for Pipelines Carrying Normally Dry Natural Gas (Dg-Icda)	
ISO 18797-1:2016 Petroleum, Petrochemical and Natural Gas Industries - External Corrosion Protection of Risers by Coatings and Linings - Part 1: Elastomeric Coating Systems-Polychloroprene or EPDM	ASTM G186-05(2016) Standard Test Method for Determining Whether Gas-Leak-Detector Fluid Solutions can Cause Stress Corrosion Cracking of Brass Alloys		

ISO 21207:2015 Corrosion Tests in Artificial Atmospheres - Accelerated Corrosion Tests Involving Alternate Exposure to Corrosion- Promoting Gases, Neutral Salt-Spray and Drying	
ISO/DIS 13680 Petroleum and Natural Gas Industries - Corrosion-Resistant Alloy Seamless Tubes for use as Casing, Tubing and Coupling Stock - Technical Delivery Conditions	

Table 1d for 'petroleum and corrosion without gas' high-lights

NACE	ASTM	ISO
NACE 34103:2014 Overview of Sulfidation (Sulfidic) Corrosion in Petroleum Refining Hydroprocessing Units	ASTM D 130 ADJUNCT Adjunct To D130 Copper Strip Corrosion Standard for Petroleum	ISO 4404-1:2012 Petroleum and Related Products - Determination of the Corrosion Resistance of Fire-Resistant Hydraulic Fluids - Part 1: Water-Containing Fluids
NACE SP 01 76:2007 Corrosion Control of Submerged Areas of Permanently Installed Steel Offshore Structures Associated with Petroleum Production	ASTM D7548-16a Standard Test Method for Determination of Accelerated Iron Corrosion in Petroleum Products	ISO 4404-2:2010 Petroleum and Related Products - Determination of The Corrosion Resistance of Fire-Resistant Hydraulic Fluids - Part 2: Non-Aqueous Fluids
NACE SP 02 08:2008 Internal Corrosion Direct Assessment Methodology for Liquid Petroleum Pipelines		AR

Table 2Standards for AS, AS/NZS, EN, ANSI, ASTM, BSI, DIN, ETSI, JSA, NSAI and Standards and Amendments for ISO & IECPUBLISHED from 16 September 2015 - 13 January 2017 for:

New standards, amendments or drafts for AS, AS/NZS, EN, ANSI, ASTM, BSI, DIN, ETSI, JSA, NSAI and Standards or Amendments for ISO & IEC PUBLISHED between 21 October 2015 - 12 January 2016

Key word search on 'durability'- 7 citations with 0 corrosion related citations found.

Key word search on 'corrosion' or 'corrosivity' or 'corrosive'; but not 'anodizing' or 'anodize(d)'- 15 citations found; 0 from AS/NZS		
ISO 15741:2016	Paints And Varnishes - Friction-Reduction Coatings for The Interior of on- and Offshore Steel Pipelines for Non-Corrosive Gases	
ISO/FDIS 10129	Plain Bearings - Testing of Bearing Metals - Resistance to Corrosion by Lubricants Under Static Conditions	
ISO/FDIS 14713-3	Zinc Coatings - Guidelines and Recommendations for The Protection Against Corrosion of Iron and Steel in Structures - Part 3: Sherardizing	
ISO/FDIS 6509-2	Corrosion of Metals and Alloys - Determination of Dezincification Resistance of Copper Alloys with Zinc - Part 2: Assessment Criteria	
ISO/FDIS 9227	Corrosion Tests in Artificial Atmospheres - Salt Spray Tests	
ISO/DIS 19280	Corrosion of Metals and Alloys - Measurement of Critical Crevice Temperature for Cylindrical Crevice Geometries in Ferric Chloride Solution	
I.S. EN ISO 4623- 2:2016	Paints And Varnishes - Determination of Resistance to Filiform Corrosion - Part 2: Aluminium Substrates (ISO 4623-2:2016)	
JIS Z 1535:2014	Corrosion Inhibitor Treated Papers for Iron and Steel	
DIN EN ISO 14713-1 (2016-12) (Draft	Zinc Coatings - Guidelines and Recommendations for the Protection Against Corrosion of Iron and Steel in Structures - Part 1: General Principles Of Design And Corrosion Resistance (ISO/FDIS 14713- 1:2016); German and English Version FprEN ISO 14713-1:2016	
DIN EN ISO 28706-3 (2016-11) (Draft)	Vitreous and Porcelain Enamels - Determination of Resistance to Chemical Corrosion - Part 3: Determination of Resistance to Chemical Corrosion by Alkaline Liquids Using a Hexagonal Vessel or a Tretragonal Glass Bottle (ISO/DIS 28706-3:2016); German and English Version prEN ISO 28706-3:2016	
DIN 65480 (2016-12)	Aerospace Series - Hexagon Nuts with Flange and Mj Thread, Self-Locking, Corrosion-Resisting Steel - Class: 1100 MPa/315 øC; Text in German and English	

MS 51606 Revision D Notice 1 Validation	Pin, Grooved, Headless (Half Length Reverse Taper Groove) Corrosion-Resistant Steel - Revision D Notice 1 Validation
MS 51957 Revision D Notice 1 Validation	Screw, Machine, Pan Head, Cross-Recessed, Corrosion Resistant Steel, Unc-2A - Revision D Notice 1 Validation
MS 51960 Revision D Notice 1 Validation	Screw, Machine - Flat Countersunk Head, 82 Degree, Cross-Recessed, Corrosion Resistant Steel, Unf-2A - Revision D Notice 1 Validation
QPL 23398 Revision Oct 2016	Qualified Product List of Products Qualified Under Performance Specification - Mil-L-23398 - Lubricant, Solid Film, Air-Cured, Corrosion Inhibiting, Nato Code Number S-749 - Revision Oct 2016
Key word search on 'pa Publications found; 0 f	hint' and or 'coating'; but not 'anodizing' or 'anodize(d)' or corrosion– 37 relevant (and For AS AS/NZS
ISO 15741:2016	Paints and Varnishes - Friction-Reduction Coatings for the Interior of on- and Offshore Steel Pipelines for Non-Corrosive Gases
DIN EN ISO 16482-1 (2016-11)	Binders for Paints and Varnishes - Determination of the Non-Volatile-Matter Content of Aqueous Rosin-Resin Dispersions - Part 1: Oven Method (ISO 16482-1:2013)
DIN EN ISO 16482-2 (2016-11)	Binders for Paints and Varnishes - Determination of the Non-Volatile-Matter Content of Aqueous Rosin-Resin Dispersions - Part 2: Microwave Method (ISO 16482-2:2013)
DIN EN ISO 3248 (2016-12)	Paints and Varnishes - Determination of the Effect of Heat (ISO 3248:2016)
DIN EN 71-7/A1 (2017-01) (Draft)	Safety of Toys - Part 7: Finger Paints - Requirements and Test Methods; German and English Version EN 71-7:2014/prA1:2016
DIN EN ISO 7784-1 (2016-12)	Paints and Varnishes - Determination of Resistance to Abrasion - Part 1: Method with Abrasive-Paper Covered Wheels and Rotating Test Specimen (ISO 7784-1:2016)
DIN EN ISO 7784-2 (2016-12)	Paints and Varnishes - Determination of Resistance to Abrasion - Part 2: Method with Abrasive Rubber Wheels and Rotating Test Specimen (ISO 7784-2:2016)
DIN EN ISO 7784-3 (2016-12)	Paints and Varnishes - Determination of Resistance to Abrasion - Part 3: Method with Abrasive-Paper Covered Wheel and Linearly Reciprocating Test Specimen (ISO 7784-3:2016)
DIN EN 927-6 (2016- 12) (Draft)	Paints and Varnishes - Coating Materials and Coating Systems for Exterior Wood - Part 6: Exposure of Wood Coatings to Artificial Weathering using Fluorescent UV Lamps and Water; German and English Version prEN 927-6:2016
ISO 1434:2016	Natural Rubber in Bales - Amount of Bale Coating - Determination
ISO 14577-4:2016	Metallic Materials - Instrumented Indentation Test for Hardness and Materials Parameters - Part 4: Test Method for Metallic and Non-Metallic Coatings
ISO 15741:2016	Paints and Varnishes - Friction-Reduction Coatings for the Interior of On- and Offshore Steel Pipelines for Non-Corrosive Gases
ISO 19487:2016	Metallic and Other Inorganic Coatings - Electrodeposited Nickel-Ceramics Composite Coatings
ISO 19598:2016	Metallic Coatings - Electroplated Coatings of Zinc and Zinc Alloys on Iron or Steel with Supplementary Cr(Vi)-Free Treatment
ISO 19603:2016	Fine Ceramics (Advanced Ceramics, Advanced Technical Ceramics) - Test Method for Determining Elastic Modulus and Bending Strength of Thick Ceramic Coatings
ISO 20343:2017	Fine Ceramics (Advanced Ceramics, Advanced Technical Ceramics) - Test Method for Determining Elastic Modulus of Thick Ceramic Coatings at Elevated Temperature
ISO/FDIS 14713-3	Zinc Coatings - Guidelines and Recommendations for the Protection Against Corrosion of Iron and Steel in Structures - Part 3: Sherardizing
ISO/DIS 18796-1	Petroleum, Petrochemicals and Natural Gas Industries - Internal Coating and Lining of Carbon Steel Process Vessels - Part 1: Technical Requirements
IEC 60664-3 Ed. 3.0 (Bilingual 2016)	Insulation Coordination for Equipment Within Low-Voltage Systems - Part 3: Use of Coating, Potting or Moulding for Protection Against Pollution
I.S. EN ISO 14577- 4:2016	Metallic Materials - Instrumented Indentation Test for Hardness And Materials Parameters - Part 4: Test Method for Metallic and Non-Metallic Coatings (ISO 14577-4:2016)
I.S. EN ISO 19598:2016	Metallic Coatings - Electroplated Coatings of Zinc and Zinc Alloys on Iron or Steel With Supplementary Cr(6)-free Treatment (ISO 19598:2016)
I.S. EN ISO 2286- 2:2016	Rubber- or Plastics-coated Fabrics - Determination of Roll Characteristics - Part 2: Methods for Determination of Total Mass per Unit Area, Mass per Unit Area of Coating and Mass per Unit Area of Substrate

ACA STANDARDS UPDATE

	S I S
DIN EN ISO 14647 (2016-11)	Metallic Coatings - Determination of Porosity in Gold Coatings on Metal Substrates - Nitric Acid Vapour Test (ISO 14647:2000)
DIN EN ISO 14713-1 (2016-12) (Draft)	Zinc Coatings - Guidelines and Recommendations for the Protection Against Corrosion of Iron and Steel in Structures - Part 1: General Principles of Design and Corrosion Resistance (ISO/Fdis 14713- 1:2016); German and English Version FprEN ISO 14713-1:2016
ISO/FDIS 14713-3	Zinc Coatings - Guidelines and Recommendations for the Protection Against Corrosion of Iron and Steel in Structures - Part 3: Sherardizing
DIN EN ISO 20502 (2016-11)	Fine Ceramics (Advanced Ceramics, Advanced Technical Ceramics) - Determination of Adhesion of Ceramic Coatings By Scratch Testing (ISO 20502:2005 Including Cor 1:2009)
DIN EN ISO 2178 (2016-11)	Non-Magnetic Coatings on Magnetic Substrates - Measurement of Coating Thickness - Magnetic Method (ISO 2178:2016)
DIN EN ISO 26423 (2016-11)	Fine Ceramics (Advanced Ceramics, Advanced Technical Ceramics) - Determination of Coating Thickness by Crater-Grinding Method (ISO 26423:2009)
DIN EN ISO 26424 (2016-11)	Fine Ceramics (Advanced Ceramics, Advanced Technical Ceramics) - Determination of the Abrasion Resistance of Coatings by a Micro-Scale Abrasion Test (ISO 26424:2008)
DIN EN ISO 2931 (2017-01) (Draft)	Anodizing of Aluminium and its Alloys - Assessment of Quality of Sealed Anodic Oxidation Coatings by Measurement of Admittance (ISO/DIS 2931:2016); German and English version prEN ISO 2931:2016
DIN EN ISO 3210 (2016-12) (Draft)	Anodizing of Aluminium and its Alloys - Assessment of Quality of Sealed Anodic Oxidation Coatings by Measurement of the Loss of Mass After Immersion in Acid Solution(S) (ISO/DIS 3210.2:2016); German and English Version prEN ISO 3210:2016
DIN EN 4474 (2016- 11)	Aerospace Series - Aluminium Pigmented Coatings - Coating Methods; German and English Version EN 4474:2016
DIN EN 927-6 (2016- 12) (Draft)	Paints and Varnishes - Coating Materials and Coating Systems for Exterior Wood - Part 6: Exposure of Wood Coatings to Artificial Weathering Using Fluorescent UV Lamps and Water; German and English Version prEN 927-6:2016
ISO 19598:2016	Metallic Coatings - Electroplated Coatings of Zinc and Zinc Alloys on Iron or Steel with Supplementary Cr(Vi)-Free Treatment
ISO/DIS 18796-1	Petroleum, Petrochemicals and Natural Gas Industries - Internal Coating and Lining of Carbon Steel Process Vessels - Part 1: Technical Requirements
MIL DTL 53022 Revision E Notice 1 Validation	Primer, Epoxy Coating, Corrosion Inhibiting Lead and Chromate Free - Revision E Notice 1 Validation
MIL PRF 85285 Revision E Notice 1 Validation	Coating: Polyurethane, Aircraft and Support Equipment - Revision E Notice 1 Validation
Key word search on 'ga AS/NZS.	lvanize' or 'galvanized' or galvanizing' (and the galvanise variants) – 1 citations found, 0 from AS
ISO/DIS 19203	Hot-Dip Galvanized and Zinc-Aluminium Coated High Tensile Steel Wire for Bridge Cables - Specifications
Key word search on 'co steel related.	prrosion' and 'concrete' or 'concrete' and 'coatings' – 2 Standard Publications found reinforcing
AS 1012.20.1:2016	Methods of Testing Concrete - Determination of Chloride and Sulfate in Hardened Concrete and Aggregates - Nitric Acid Extraction Method
AS 1012.20.2:2016	Methods of Testing Concrete - Determination of Water-Soluble Chloride in Aggregates and Hardened Concrete
Key word search on 'ca	hthode' or 'cathodic' – 2 Standard Publications found; 0 from AS AS/NZS.
ISO/FDIS 15257	Cathodic Protection - Competence Levels of Cathodic Protection Persons - Basis for a Certification Scheme
ISO 12696:2016	Cathodic Protection of Steel in Concrete
Key word search on 'ar	node' or 'anodes' or 'anodic' – O Standard Publications found.
Keyword Search on 'ele AS/NZS.	ectrochemical' or 'electrolysis' or 'electroplated' - 6 Standard Publications found, none from AA or
DIN EN ISO 16773-1 (2016-12)	Electrochemical Impedance Spectroscopy (EIS) on Coated and Uncoated Metallic Specimens - Part 1: Terms and Definitions (ISO 16773-1:2016)

ACA STANDARDS UPDATE 🖩

DIN EN ISO 16773-2 (2016-12)	Electrochemical Impedance Spectroscopy (EIS) on Coated and Uncoated Metallic Specimens - Part 2: Collection of Data (ISO 16773-2:2016)
DIN EN ISO 16773-3 (2016-12)	Electrochemical Impedance Spectroscopy (EIS) on Coated and Uncoated Metallic Specimens - Part 3: Processing and Analysis of Data From Dummy Cells (ISO 16773-3:2016)
ISO 19598:2016	Metallic Coatings - Electroplated Coatings of Zinc and Zinc Alloys on Iron or Steel with Supplementary Cr(VI)-Free Treatment
I.S. EN ISO 19598:2016	Metallic Coatings - Electroplated Coatings of Zinc and Zinc Alloys on Iron or Steel with Supplementary Cr(6)-free Treatment (ISO 19598:2016)
DIN EN 14038-1 (2016-10)	Electrochemical Realkalization and Chloride Extraction Treatments for Reinforced Concrete - Part 1: Realkalization
Keyword Search on 'an	odize' or 'anodized' - 5 Publications found
ISO/DIS 3210.2	Anodizing of Aluminium and its Alloys - Assessment of Quality of Sealed Anodic Oxidation Coatings by Measurement of the Loss of Mass After Immersion in Acid Solution(S)
DIN EN 17059 (2016- 12) (Draft)	Plating and Anodizing Lines - Safety Requirements; German and English Version PrEN 17059:2016
DIN EN ISO 2143 (2017-01) (Draft)	Anodizing of Aluminium and its Alloys - Estimation of Loss of Absorptive Power of Anodic Oxidation Coatings After Sealing - Dye-Spot Test with Prior Acid Treatment (ISO/DIS 2143:2016); German and English Version PrEN ISO 2143:2016
DIN EN ISO 2931 (2017-01) (Draft)	Anodizing of Aluminium and its Alloys - Assessment of Quality of Sealed Anodic Oxidation Coatings by Measurement of Admittance (ISO/DIS 2931:2016); German and English Version PrEN ISO 2931:2016
DIN EN ISO 3210 (2016-12) (Draft)	Anodizing of Aluminium and its Alloys - Assessment of Quality of Sealed Anodic Oxidation Coatings by Measurement of the Loss of Mass After Immersion in Acid Solution(S) (ISO/DIS 3210.2:2016); German and English Version PrEN ISO 3210:2016

