

# ACA Standards Update

**Welcome to the corrosion related standards report for May 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
May	Asset Management
August	Protective Coatings
November	Concrete & CP

This Standards report focuses on Asset Management in relation to corrosion.

As previously this is in two stages, namely:

1. A global standards and publication focus at **19 April 2017**, searching through SAI Global Publications at <https://infostore.saiglobal.com/en-au/Search/Standard/?sortKey=productName-asc&productFamily=STANDARD>, for all current publications and standards relating to corrosion and its prevention for the topic of 'Asset Management' with a focus on corrosion.

These results are shown in Table 1.

2. A SAI Global search at <https://infostore.saiglobal.com/en-au/Search/Standard/?sortKey=productName-asc&productFamily=STANDARD>, with filters set as below,

Select Publisher	▼
Standard	▼
Current	▼
2017-01-16	
2017-04-19	
Select Category	▼

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 January - April 19 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 for a search on 'Asset Management', with a focus on corrosion, there were 18 AS and NZS citations, with 14 standards and 4 drafts; see Table 1.

There were no citations for "Asset Management and corrosion", but all aspects of corrosion and its prevention are an important part for the optimal life cycle performance of your buildings, structures and equipment assets and need to be included in your asset management strategy; for an overview of asset management refer to Setting a good standard for asset management .

2. Across SAI Global online Standards Publications there was a total of 44 listings of new standards, Drafts and Amendments found that were issued from **16 January - April 19 2017**; 4 from AS AS/NZS as shown below;

- a. DR AS/NZS 2312.1:2014 Amdt 1:2017 Guide to the protection of structural steel against atmospheric corrosion by the use of protective coatings Paint coatings
- b. AS/NZS 2311:2017 Guide to the painting of buildings
- c. AS 2331.1.2-2001 (R2017) Methods of test for metallic and related coatings Local thickness tests - Coulometric method
- d. AS 1231-2000 (R2017) Aluminium and aluminium alloys - Anodic oxidation coatings

**All results are shown in Table 2 (via the ACA website, publications tab at [www.corrosion.com.au](http://www.corrosion.com.au)).**

Regards,



Arthur Austin  
([Arthur.Austin@alsglobal.com](mailto:Arthur.Austin@alsglobal.com))



**Stage 1 Report on SAIGLOBAL Publications at <https://infostore.saiglobal.com/en-au/Search/Standard>, for all current standards relating to 'Asset Management' on 16 April 2017. There was a total of 18 AS and NZS related citations consisting of 14 Standards and 4 Drafts.**

Table 1 for 'Asset Management'

AS ISO	NZS	AS IEC
AS ISO 55002:2014 Asset management - Management systems - Guidelines for the application of AS ISO 55001	NZS 7901:2014 Electricity and gas industries – Safety management systems for public safety	AS IEC 60300.3.3-2005 (R2016) Dependability management Application guide - Life cycle costing Standards Australia
AS ISO 55001:2014 Asset management - Management systems - Requirements	AS/NZS	AS IEC 60300.3.14-2005 (R2016) Dependability management Application guide - Maintenance and maintenance support
	AS/NZS 4536:1999 (R2014) Life cycle costing - An application guide	
AS ISO 55000:2014 Asset management - Overview, principles and terminology	AS/NZS ISO/IEC 19770.1:2007 Information technology - Software asset management Processes	AS IEC 61014-2004 (R2016) Programmes for reliability growth
DR AS ISO 55001:2014 Asset management - Management systems - Requirements	AS/NZS 4360:2004 Risk management Standards Australia	AS IEC 60300.3.10-2004 (R2016) Dependability management Application guide - Maintainability
DR 06489 CP Information technology - Software asset management Part 1: Processes	AS/NZS 4360:1999 Risk management	AS IEC 61882-2003 (R2013) Hazard and operability studies (HAZOP studies) - Application guide
DR AS ISO 55000:2014 Asset management - Overview, principles and terminology	AS/NZS 4360:1995 Risk management	AS IEC 60300.3.1-2003 (R2013) Dependability management Application guide - Analysis techniques for dependability - Guide on methodology
DR AS ISO 55002:2014 Asset management - Management systems - Guidelines for the application of AS ISO 55001		

Table 2 Standards for AS, AS/NZS, EN, ANSI, ASTM, BSI, DIN, ETSI, JSA, NSAI and Standards and Amendments for ISO & IEC PUBLISHED from **16 January - April 18 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 16 January to April 19 2017**

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) '- 24 citations found; 1 Draft from AS/NZS

DR AS/NZS 2312.1:2014 Amd 1:2017	Guide to the protection of structural steel against atmospheric corrosion by the use of protective coatings Paint coatings
ISO 6509-2:2017	Corrosion of metals and alloys - Determination of dezincification resistance of copper alloys with zinc Part 2: Assessment criteria
ISO 9227:2017	Corrosion tests in artificial atmospheres - Salt spray tests
ISO 28706-2:2017	Vitreous and porcelain enamels - Determination of resistance to chemical corrosion Part 2: Determination of resistance to chemical corrosion by boiling acids, boiling neutral liquids, alkaline liquids and/or their vapours
I.S. EN 4827:2017	Aerospace Series - Hexavalent Chromium Free Anodizing of Aluminium and Aluminium Alloys
I.S. EN 3908:2017	Aerospace Series - Nipples, Lubricating, Axial Type, in Corrosion Resisting Steel, Passivated
I.S. EN 2879:2017	Aerospace Series - Nuts, Anchor, Self-locking, air Resistant, Sealing, Floating, two Lug, With Counterbore, in Corrosion Resisting Steel, Passivated, Mos[2] Lubricated - Classification: 900 mpa (at Ambient Temperature)/235 Degrees c
I.S. EN 4297:2017	Aerospace Series - Nuts, Hexagon, Self-locking by Plastic Ring, Normal Height, Normal Across Flats, in Corrosion Resisting Steel, Passivated - Classification: 900 mpa (at Ambient Temperature)/120 Degree c

I.S. EN 6029:2017	Aerospace Series - Rod-ends, Adjustable, Single Fork With unj Threaded Shank Min. Engagement: 1,5 x Thread Diameter in Corrosion Resisting Steel - Dimensions and Loads - Inch Series
I.S. EN ISO 12696:2016	Cathodic Protection of Steel in Concrete (ISO 12696:2016)
ISO/FDIS 11997-1	Paints and varnishes - Determination of resistance to cyclic corrosion conditions Part 1: Wet (salt fog)/dry/humidity
ISO/DIS 11130	Corrosion of metals and alloys - Alternate immersion test in salt solution
ISO/DIS 19097-1	Accelerated life test method of mixed metal oxide anodes for cathodic protection Part 1: Application in concrete
ISO/DIS 19097-2	Accelerated life test method of mixed metal oxide anodes for cathodic protection Part 2: Application in soils and natural waters
DIN EN 3908 (2017-04)	Aerospace series - Nipples, lubricating, axial type, in corrosion resisting steel, passivated; German and English version
DIN EN 2879 (2017-03)	Aerospace series - Nuts, anchor, self-locking, air resistant, sealing, floating, two lug, with counterbore, in corrosion resisting steel, passivated, MoS<(Index)2> lubricated - Classification: 900 MPa (at ambient temperature) / 235°C;
DIN 65508 (2017-03)	Aerospace - Nuts, hexagon with MJ thread, captive washer and counterbore, self-locking, corrosion-resistant steel - Class: 1 100 MPa/315 øC/425°C
DIN EN 4297 (2017-03)	Aerospace series - Nuts, hexagon, self-locking by plastic ring, normal height, normal across flats, in corrosion resisting steel, passivated - Classification: 900 MPa (at ambient temperature) / 120°C; German and English version EN 4297:2017
DIN EN 6029 (2017-03)	Aerospace series - Rod-ends, adjustable, single fork with UNJ threaded shank min. engagement: 1,5 x thread diameter in corrosion resisting steel - Dimensions and loads - Inch series; German and English version EN 6029:2017
JIS G 4903:2017	Seamless Nickel-chromium-iron Alloy Pipes
JIS G 3468:2016	Large Diameter Welded Stainless Steel Pipes
JIS G 3459:2016	Stainless Steel Pipes
DIN EN ISO 18086 (2017-04)	Corrosion of metals and alloys - Determination of AC corrosion - Protection criteria (ISO 18086:2015); German and English version prEN ISO 18086:2017
DIN EN ISO 11130 (2017-03)	Corrosion of metals and alloys - Alternate immersion test in salt solution (ISO/DIS 11130:2017); German and English version prEN ISO 11130:2017
<b>Key word search on 'paint' and or 'coating'; but not 'anodizing' or 'anodize(d)' or corrosion- 16 citations found; 1 for AS AS/NZS</b>	
AS/NZS 2311:2017	Guide to the painting of buildings
I.S. EN ISO 8502-4:2017	Preparation of Steel Substrates Before Application of Paints and Related Products - Tests for the Assessment of Surface Cleanlines Part 4: Guidance on the Estimation of the Probability of Condensation Prior to Paint Application (iso 8502-4:2017)
DIN SPEC 91343 (2017-04)	Characterization of paint sprays - Characterization of the droplet size and velocity in (lacquer) paint sprays
ASTM 06.04 (2017)	Paints, Related Coatings, And Aromatics - Paint - Solvents - Aromatic - Industrial, Specialty And Related Chemicals
ASTM 06.03 (2017)	Paints, Related Coatings, And Aromatics - Paint - Pigments, Drying Oils, Polymers, Resins, Naval Stores, Cellulosic Esters, And Ink Vehicles
ASTM E1979-17	Standard Practice for Ultrasonic Extraction of Paint, Dust, Soil, and Air Samples for Subsequent Determination of Lead
ASTM E1795-17	Standard Specification for Non-Reinforced Liquid Coating Encapsulation Products for Leaded Paint in Buildings
ASTM 06.02 (2017)	Paints, Related Coatings, And Aromatics - Paint - Products And Applications - Protective Coatings - Pipeline Coatings
ASTM 06.01 (2017)	Paints, Related Coatings, And Aromatics - Paint - Tests For Chemical, Physical, And Optical Properties - Appearance
ASTM D1613-17	Standard Test Method for Acidity in Volatile Solvents and Chemical Intermediates Used in Paint, Varnish, Lacquer, and Related Products

ASTM A879/A879M-12(2017)	Standard Specification for Steel Sheet, Zinc Coated by the Electrolytic Process for Applications Requiring Designation of the Coating Mass on Each Surface
I.S. EN 13523-22:2017	Coil Coated Metals - Test Methods Part 22: Colour Difference - Visual Comparison
I.S. EN 13523-10:2017	Coil Coated Metals - Test Methods Part 10: Resistance to Fluorescent uv Radiation and Water Condensation
I.S. EN 13523-1:2017	Coil Coated Metals - Test Methods Part 1: Film Thickness
I.S. EN 15384-1:2017	Packaging - Test Method to Determine the Porosity of the Internal Coating of Flexible Aluminium Tubes Part 1: Sodium Chloride Test
I.S. EN 15384-2:2017	Packaging - Test Method to Determine the Porosity of the Internal Coating of Flexible Aluminium Tubes Part 2: Copper Sulphate Test
<b>Key word search on 'galvanize' or 'galvanized' or galvanizing' (and the galvanise variants) –0 citations found, 0 from AS AS/NZS.</b>	
<b>Key word search on 'corrosion' and 'concrete' or 'concrete' and 'coatings' – 0 Standard Publications found reinforcing steel related.</b>	
<b>Key word search on 'anode' or 'anodes' or 'anodic' – 1 AS Standard Publications found (renewed 2017).</b>	
AS 2331.1.2-2001 (R2017)	Methods of test for metallic and related coatings Local thickness tests - Coulometric method
<b>Key word Search on 'electrochemical' or 'electrolysis' or 'electroplated' - 2 Standard Publications found, none from AS or AS/NZS.</b>	
ISO 16773-4:2017	Electrochemical impedance spectroscopy (EIS) on coated and uncoated metallic specimens Part 4: Examples of spectra of polymer-coated and uncoated specimens
ISO/FDIS 2082	Metallic and other inorganic coatings - Electroplated coatings of cadmium with supplementary treatments on iron or steel
<b>Keyword Search on 'anodize' or 'anodized' – 1 AS Publication found (renewed 2017)</b>	
AS 1231-2000 (R2017)	Aluminium and aluminium alloys - Anodic oxidation coatings