

Accreditation Scope

**Corrosion Control Services NDT, NAL 121
Testing Laboratory, (ISO/IEC 17025:2017)**

Industrial Mussafah, Abu Dhabi, UAE

Issue Date: 06-12-2020

Expiry Date: 05-12-2023

Issue No: 04

Testing Field	Materials/ Products tested	Type of test/ Test parameter/ Properties measured/Range of measurement	Test Method (Standard, Internal Procedure, Technique)	Permanent lab (P) / Client-site (S)
Mechanical & Physical	Ferrous & non- ferrous products	Tension testing (0-1000 kN)	ASTM E8/E8M-16ae1, ASTM A370-2020 BS EN ISO 6892-1:2019 ASME Sec IX-2019 AWS D1.1-2020 AWS D1.2-2014 AWS D1.4/D1.4M: 2018 AWS D1.6/D1.6M:2017 API 1104-E5(2018) BS EN ISO 15614:2017 BS EN ISO 4136:2012 ASME Section VIII (DIV1, DIV2, DIV3)-2019	P
		Guided Bend Test for ductility of welds (90° & 180° Angle)	ASTM E190-2014, ASTM A370-2020 ASTM E290-2014 AWS D1.1-2020 AWS D1.2-2014 AWS D1.4/D1.4M: 2018 AWS D1.6/D1.6M:2017 ASME Sec IX-2019 BS EN ISO 15614:1-2017 BS EN ISO 5173-2010+A1- 2011 API 1104- E5(2018)	
		Charpy Impact Test (0-406J)	ASTM E23-18, ASTM A370-2020 BS EN ISO 148-1:2016 ASME Sec IX-2019 AWS D1.1-2020 AWS D1.2-2014 AWS D1.6/D1.6M-2017	

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			ASME Section II: Part C-2019 ASME Section VIII (DIV 1, DIV 2, DIV3)-2019 API 1104-E5(2018)	
Mechanical & Physical	Ferrous & non-ferrous products	Vickers Hardness test (HV10, HV30)	ASTM E 92-17, ASTM A370-2020 ASME Sec IX-2019 AWS D1.1-2020 AWS D1.2-2014 AWS D1.6/D1.6M-2017 API 1104-E5(2018) BS EN ISO 15614-1:2017 BS EN ISO 6507-1:2018	P
		Rockwell Hardness Test (0-80 HRA, 20-70 HRC)	ASTM E18-2020, ASTM A370-2020 BS EN ISO 6508-1:2016 ASME Sec IX-2019 AWS D1.1-2020 AWS D1.2-2014 AWS D1.6/D1.6M-2017 API 1104-E5(2018) BS EN ISO 15614:1-2017	
		Brinell Hardness Test (100-400 HBW 2.5/31.25, 62.5, 187.5)	ASTM E10-18, ASTM A370-2020 BS EN ISO 6506-1:2014	
		Fillet Weld Test/ Fracture Test	ASME Sec IX-2019 AWS D1.1-2020 AWS D1.2-2014 AWS D1.6/D1.6M-2017	
		Nick Break	API 1104-E5(2018)	P

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Mechanical & Physical	Ferrous & non- ferrous products	Macro Hardness survey of Weld	ASME Sec IX-2019 AWS D1.1-2020 AWS D1.2-2014 AWS D1.6/D1.6M-2017 API 1104-2013 BS EN ISO 15614:1-2017 NACE MR0175-2:2015	P
		Macro / micro examination of weld (Destructive Testing of Weld)	ASME Sec IX-2019 AWS D1.1-2020 AWS D1.2-2014 AWS D1.6/D1.6M-2017 API 1104-E5(2018) BS EN ISO 17639-2013	
		Micro Examination Micro etching	ASTM E407-07-2015e1	
		Micro Examination - Volume Fraction by Systematic Manual Point Count	ASTM E562-2019	
		Micro Examination Determining Average Grain Size	ASTM E112-2013	
		Micro Examination- Determining the Inclusion Content of Steel	ASTM E45-2018a	
		Field Metallographic Replicas	ASTM E 1351-01(2012)	
		Inter Granular corrosion (IGC) test samples Method B, C, E	ASTM A262 -2015 ASTM G 28 -2 (2015)	
		Pitting corrosion, method A & C	ASTM G48-2011(2015)	

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Mechanical & Physical	Ferrous & non- ferrous products	Pitting corrosion, method C	ASTM A923-2014	P
		Hydrogen Induced Cracking test (HIC)	NACE TM 0284-2016	
		Sulfide stress cracking and stress corrosion cracking test (SSCC)-Method A	NACE TM 0177-2016 NACE TM 0316-2016	
		Sulfide stress cracking and stress corrosion cracking test (SSCC)-Method B -4 Point bend test	NACE TM 0177-2016 ASTM G39-99 (2016)	
		Stress oriented hydrogen induced cracking (SOHIC)	NACE TM 0284-2016 NACE MR 0175/ISO15156- 1&2-2015	
Chemical	Ferrous and non- ferrous products	Elemental Analysis of Metal by OES		P
		1.Low Alloy Steels- C, Si, S, P, Mn, Ni, Cr, Mo, Cu, Co, Al, V, As, N	ASTM E415-2017	
		2.Stainless Steel C, Si, Mo, P, S, Cr, Ni, Cu, N, Mn	ASTM E1086-2014	
		3.Nickel & its Alloy C, Si, S, P, Mn, Cu, Fe, Nb, Cr, Mo, Co, Ti, Al, B, Ni, Ta	ASTM E3047-2016	

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Chemical	Ferrous and non-ferrous products	4. Cast Iron C, Si, S, P, Mn, Ni, Cr, Cu, Mo, Al, Ti, V, Co, W, Sn, As, Sb, Pb, Bi, Se, B, N	NDTCCS/MLAB/SOP 18	P
		5. Aluminium & its Alloy Cu, Mg, Si, Fe, Mn, Ni, Sn, Zn, Pb, Ti, Cr, Be	NDTCCS/MLAB/SOP 18	
		6. Copper & its Alloy Sn, Pb, Zn, Fe, Ni, Al, Si, Mn, As, Bi, Sb, P, Cr, Ag, Cd, Co, Te, Cu	NDTCCS/MLAB/SOP 18	
		7. Zinc and its Alloy Pb, Mg, Al, Cd, Fe, Sn, Cu, Ni, Co, Bi, Sb, As	NDTCCS/MLAB/SOP 18	
	Water & Waste water	pH @ 25 °C (0 to 14)	Method 4500 H+ B - APHA 23 rd Edition, 2017	P
		Electrical conductivity	Method 2510 B- APHA 23 rd Edition, 2017	
		Total Suspended Solids (up to 200 mg/l)	Method 2540D - APHA 23 rd Edition, 2017	
		Total Dissolved Solids (500 to 20 000 mg/l)	Method 2540C - APHA 23 rd Edition, 2017	
	Waste water	Biochemical Oxygen Demand (5Days)	Method 5210B - APHA 23 rd Edition, 2017	P
		Chemical oxygen demand (> 50 mg O ₂ /L)	Method 5220C - APHA 23 rd Edition, 2017	
		Oil and grease	Method 5520B - APHA 23 rd Edition, 2017	

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Chemical	Waste water	Heavy Metals (Cu, Cd, Pb, Zn, Ni, Cr, Ag)	Method 3030F, 3120B - APHA 23 rd Edition, 2017	P
	Water	Chloride	Method 4500 Cl B- APHA 23 rd Edition, 2017	P
		Sulphate	Method 4500 SO42- C- APHA 23 rd Edition, 2017	
		Carbonate	Method 2320 B- APHA 23 rd Edition, 2017	
		Bicarbonate	Method 2320 B- APHA 23 rd Edition, 2017	
		Calcium	Method 3030B, 3120B - APHA 23 rd Edition, 2017	
		Magnesium	Method 3030B, 3120B - APHA 23 rd Edition, 2017	
		Potassium	Method 3030B, 3120B - APHA 23 rd Edition, 2017	
		Sodium	Method 3030B, 3120B - APHA 23 rd Edition, 2017	
END				