UNITED ARAB EMIRATES
MINISTRY OF INDUSTRY
& ADVANCED TECHNOLOGY

ENAS
Emirates National Accreditation System

Accreditation Scope

Corrosion Control Services NDT, NAL121
Testing Laboratory, (ISO/IEC 17025:2017)

Sector MW4, Plot No. 99, Mussafah, , Abu Dhabi, United Arab Emirates

Issue Date: 09/11/2026 **Expiry Date: 05/12/2029**
Issue No: 9

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 & nonferrous products	Tension Testing (0-1000 kN)	ASTM A370:2026, ASTM A770/A770M:03(2025), ASTM E8/E8M:2025, ASME Section VIII (Div 1, Div 2, Div 3):2025, ASME Section IX:2025, AWS B4.0/B4.0M:2016+AMD1:2021, AWS D1.1/D1.1M:2025, AWS D1.2/D1.2M:2026, AWS D1.4/D1.4M: 2018, AWS D1.6/D1.6M: 2017+AMD1:2021, AWS D17.1/D17.1M:2024, API 5L 47th Ed (2026), API 1104 22nd Edition(2021)+Errata 1(2023) + Attendum 1(2026), BS EN 10164:2018, BS EN ISO 4136:2022, BS EN ISO 6892-1:2019, BS EN ISO 15614-1:2017+A1:2019, ISO 898-1:2013.	P

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ENAS Program Manager:

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Mechanical And Physical	Ferrous & nonferrous products	Guided Bend Test for ductility of welds (90° & 180° Angle)	ASTM A370:2026, ASTM E190:2021, ASTM E290:2022, ASME Section IX:2025, AWS B4.0/B4.0M:2016+AMD1:2021, AWS D1.1/D1.1M:2025, AWS D1.2/D1.2M:2026, AWS D1.4/D1.4M: 2018, AWS D1.6/D1.6M: 2017+AMD1:2021, AWS D17.1/D17.1M:2024, API 5L 47th Ed (2026), API 1104 22nd Edition (2021)+Errata 1(2023) + Attendum 1(2026), BS EN ISO 5173:2023, BS EN ISO 9606-1:2017, BS EN ISO 9606-2:2004, BS EN ISO 15614-1:2017+A1:2019	P
Mechanical & Physical	Ferrous & nonferrous products	Charpy Impact Test (0-406J)	ASTM A370:2026, ASTM A923:2025(Method-B), ASTM E23:2025, ASME Section II Part-C:2025, ASME Section VIII (Div 1, Div 2, Div3):2025, ASME Section IX:2025, AWS B4.0/B4.0M:2016+AMD1:2021, AWS D1.1/D1.1M:2025, AWS D1.2/D1.2M:2026, AWS D1.6/D1.6M: 2017+AMD1:2021, API 5L 47th Ed (2026), API 1104 22nd Edition (2021)+Errata 1(2023) + Attendum 1(2026), BS EN ISO 148-1:2016, BS EN ISO 9016:2022.	P

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Mechanical & Physical	Ferrous & nonferrous products	Vickers Hardness Test (HV10, HV30)	ASTM A370:2026, ASTM E92:2026, ASTM E8/E8M:2025, ASME Section IX:2025, AWS B4.0/B4.0M:2016+AMD1:2021, AWS D1.1/D1.1M:2025, AWS D1.2/D1.2M:2026, AWS D1.6/D1.6M: 2017+AMD1:2021, API 5L 47th Ed (2026), API 1104 22nd Edition (2021)+Errata 1(2023) + Attendum 1(2026), BS EN ISO 6507-1:2023, BS EN ISO 9015-1:2011, BS EN ISO 15614-1:2017+A1:2019	P
Mechanical & Physical	Ferrous & nonferrous products	Rockwell Hardness Test (0-80 HRA, 20-70 HRC)	ASTM A370:2026, ASTM E18:2025, ASTM F606/F606M:2026A, ASME Section IX:2025, AWS D1.1/D1.1M:2025, AWS D1.2/D1.2M:2026, AWS D1.6/D1.6M:2017+AMD1: 2021, API 5L 47th Ed (2026), API 1104 22nd Edition (2021)+Errata 1(2023) + Attendum 1(2026), BS EN ISO 6508-1:2023, BS EN ISO 15614-1:2017+A1:2019, ISO 898-1:2013, ISO 898-2:2022; ANSI/NACE MR0175-2021, ISO 15156:2020	P

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Mechanical & Physical	Ferrous & nonferrous products	Brinell Hardness Test (100-400 HBW 2.5/31.25, 62.5, 187.5)	ASTM A370:2026, ASTM E10:2023, BS EN ISO 6506-1:2014	P
Mechanical & Physical	Ferrous & nonferrous products	Fillet Weld Test/ Fracture Test	ASME Section IX:2025, AWS D1.1/D1.1M:2025, AWS D1.2/D1.2M:2026, AWS D1.6/D1.6M:2017+AMD1: 2021	P
Mechanical & Physical	Ferrous & nonferrous products	Nick Break Test	API 1104 22nd Edition (2021)+Errata 1(2023) + Attendum 1(2026).	P
Mechanical & Physical	Ferrous & nonferrous products	Macro Hardness Survey of Weld	ASME Section IX:2025, AWS B4.0/B4.0M:2016+AMD1:2021, AWS D1.1/D1.1M:2025, AWS D1.2/D1.2M:2026, AWS D1.6/D1.6M:2017+AMD1: 2021, AWS D17.1/D17.1M: 2024, API 5L 47th Ed (2026), API 1104 22nd Edition (2021)+Errata 1(2023) + Attendum 1(2026), BS EN ISO 15614-1:2017+A1:2019, ANSI/NACE MR0175-2021, ISO 15156:2020	P

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Mechanical & Physical	Ferrous & nonferrous products	Macro / Micro Examination of Base Metal and Weld Metal (Destructive Testing of Weld)	ASTM E340:2023, ASME Section IX:2025, AWS D1.1/D1.1M:2025, AWS D1.2/D1.2M:2026, AWS D1.6/D1.6M:2017+AMD1: 2021, API 1104 22nd Edition (2021)+Errata 1(2023) + Attendum 1(2026), BS EN ISO 17639:2022	P
Mechanical & Physical	Ferrous & nonferrous products	Micro Examination - Micro Etching	ASTM E407:2023, ISO 17639:2022, ASM Handbook, Volume 9: 2004	P
Mechanical & Physical	Ferrous & nonferrous products	Micro Examination -Volume Fraction by Systematic Manual Point Count	ASTM E562:2019e1	P
Mechanical & Physical	Ferrous & nonferrous products	Micro Examination- Determining the Inclusion Content of Steel	ASTM E45:2025	P
Mechanical & Physical	Ferrous & nonferrous products	Micro Examination Determining Average Grain Size	ASTM E112:2025	P
Mechanical & Physical	Ferrous & nonferrous products	Field Metallographic Replica Examination	ASTM E1351:2001(2020)	P
Mechanical & Physical	Ferrous & nonferrous products	Inter Granular Corrosion (IGC) Test Method A, B, C, & E	ASTM A262:2015 (2021)	P

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Mechanical & Physical	Ferrous & nonferrous products	Inter Granular Corrosion (IGC) Test Method A & B	ASTM G28:2024	P
Mechanical & Physical	Ferrous & nonferrous products	Pitting Corrosion Test Test Method A, B, C & D	ASTM G48:2025	P
Mechanical & Physical	Ferrous & nonferrous products	Pitting Corrosion Test Test Method A & C	ASTM A923:2025	P
Mechanical & Physical	Ferrous & nonferrous products	Hydrogen Induced Cracking Test (HIC)	NACE TM0284:2026	P
Mechanical & Physical	Ferrous & nonferrous products	Sulfide Stress Cracking (SSC) and Stress Corrosion Cracking (SCC)in H_2S Environments-Test Method A	NACE TM0177:2024	P
Mechanical & Physical	Ferrous & nonferrous products	Sulfide Stress Cracking (SSC) and Stress Corrosion Cracking (SCC)in H_2S Environments-Test Method B- Four Point Bend Test	NACE TM0177:2024, ASTM G39-99 (2021), NACE TM 0316:2023.	P
Mechanical & Physical	Ferrous & nonferrous products	Stress Oriented Hydrogen Induced cracking (SOHIC)	NACE TM0284:2026, ANSI/NACE MR0175-2021, ISO 15156:2020	P
Mechanical And Physical	Ferrous and non ferrous products	Micro Vickers Hardness Test (HV1)	ASTM E384:2022	P

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Mechanical And Physical	Ferrous and non ferrous products	Soundness Check Test	ISO 898-1:2013, ASTM F606/F606M:2026A	P
Mechanical And Physical	Ferrous and non ferrous products	Tensile test under wedge loading	ISO 898-1:2013, ASTM F606/F606M:2026A	P
Mechanical And Physical	Ferrous and non ferrous products	Proof Load Test (0-1000 kN)	ISO 898-1:2013, ISO 898-2:2022, ASTM F606/F606M:2026A	P
Mechanical And Physical	Ferrous and non ferrous products	Macroetch Testing of Consumable Electrode Remelted Steel Bars and Billets	ASTM A604/A604M:2007(2022)	P
Mechanical And Physical	Ferrous and non ferrous products	Macroetch Testing of Steel Bars, Billets, Blooms and Forgings	ASTM E381:2022	P
Mechanical And Physical	Ferrous and non ferrous products	Preparation of Metallographic Specimens	ASTM E3:2026	P
Mechanical And Physical	Ferrous and non ferrous products	Assessing the Degree of Banding or Orientation of Microstructures	ASTM E1268:2019	P

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Mechanical And Physical	Ferrous and non ferrous products	Coating Thickness	ASTM B487:2024	P
Chemical	Ferrous and non ferrous products	Elemental Analysis of Metal by OES 1. Low Alloy Steels C, Si, S, P, Mn, Ni, Cr, Mo, Cu, Co, Al, V, As, N	ASTM E415:2021, NDTCCS/MLAB/SOP18.	P
Chemical	Ferrous and non ferrous products	2. Stainless Steel C, Si, Mo, P, S, Cr, Ni, Cu, N,Mn	ASTM E1086:2022, NDTCCS/MLAB/SOP18	P
Chemical	Ferrous and non ferrous products	3. Nickel & its Alloy C, Si, S, P, Mn, Cu, Fe, Nb, Cr, Mo, Co, Ti, Al, B, Ni, Ta	ASTM E3047:2022, NDTCCS/MLAB/SOP18	P
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	ASTM E1999-2023, NDTCCS/MLAB/SOP18	P
Chemical	Ferrous and non ferrous products	5. Aluminium & its Alloy Cu, Mg, Si, Fe, Mn, Ni, Sn, Zn, Pb, Ti, Cr, Be	ASTM E1251:2025, NDTCCS/MLAB/SOP18	P
Chemical	Ferrous and non ferrous products	6. Copper & its Alloy Sn, Pb, Zn, Fe, Ni, Al, Si, Mn, As, Bi, Sb, P, Cr, Ag, Cd, Co, Te, Cu	BS EN 15079:2015, NDTCCS/MLAB/SOP18	P

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Chemical	Ferrous and non ferrous products	7. Zinc and its Alloy Pb, Mg, Al, Cd, Fe, Sn, Cu, Ni, Co, Bi, Sb, As	BS EN ISO 3815-1:2005, NDTCCS/MLAB/SOP18	P
Chemical	Water & Waste water	pH @ 25 °C (0 to 14)	Method 4500 H+ B- APHA 24th Edition, 2022	P
Chemical	Water & Waste water	Electrical conductivity	Method 2510 B- APHA 24th Edition, 2022	P
Chemical	Water & Waste water	Total Suspended Solids (up to 200 mg/l)	Method 2540D - APHA 24th Edition, 2022	P
Chemical	Water & Waste water	Total Dissolved Solids (500 to 20 000 mg/l)	Method 2540C - APHA 24th Edition, 2022	P
Chemical	Waste water	Biochemical Oxygen Demand (5Days)	Method 5210B - APHA 24th Edition, 2022	P
Chemical	Waste water	Chemical oxygen demand (> 50 mg O2/L)	Method 5220C - APHA 24th Edition, 2022	P
Chemical	Waste water	Oil and grease	Method 5520B - APHA 24th Edition, 2022	P
Chemical	Waste water	Heavy Metals (Cu, Cd, Pb, Zn, Ni, Cr, Ag)	Method 3030F, 3120B - APHA 24th Edition, 2022	P
Chemical	Water	Chloride	Method 4500 Cl B- APHA 24th Edition, 2022	P

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Chemical	Water	Sulphate	Method 4500 SO42- C- APHA 24th Edition, 2022	P
Chemical	Water	Carbonate	Method 2320 B- APHA 24th Edition, 2022	P
Chemical	Water	Bicarbonate	Method 2320 B- APHA 24th Edition, 2022	P
Chemical	Water	Calcium	Method 3030B, 3120B - APHA 24th Edition, 2022	P
Chemical	Water	Magnesium	Method 3030B, 3120B - APHA 24th Edition, 2022	P
Chemical	Water	Potassium	Method 3030B, 3120B - APHA 24th Edition, 2022	P
Chemical	Water	Sodium	Method 3030B, 3120B - APHA 24th Edition, 2022	P
Chemical	Water & Waste water	Dissolved Oxygen	Method 4500 O - C & H, APHA 24th Edition, 2022	P
Chemical	Water & Waste water	Nitrogen Ammonia	Method 4500 NH3 B & C , APHA 24th Edition, 2022	P
Chemical	Water & Waste water	Total Kjeldal Nitrogen	Method 4500 N org B & C , APHA 24th Edition, 2022	P
Chemical	Water & Waste water	Fluoride	Method 4500 F- D, APHA 24th Edition, 2022	P

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Chemical	Water & Waste water	Nitrogen Nitrates	Method 4500 NO3- B, APHA 24th Edition, 2022	P
Chemical	Water & Waste water	Trace Metals (Al,As,Ba,Be,Fe,Mn,Co,Se,B,Sr, Ti)	Method 3030B, 3120B - APHA 24th Edition, 2022 & EPA 200.7 - Rev 4.4	P
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