



ACCREDITATION CERTIFICATE

LB-TEST-225

Emirates International Accreditation Centre

has accredited

TRANS ASIA INDUSTRIAL LABORATORIES L.L.C

Warehouse No 10 | Al Qouz Industrial Area 1

Dubai | United Arab Emirates

In accordance with the requirements of

ISO/IEC 17025:2017

General requirements for the competence of testing and calibration laboratories
to undertake the tests in the attached accreditation scope

This Accreditation is invalid without the attached accreditation scope and shall remain in force within the validity
period printed below, subject to continuing compliance with the requirements of the accreditation criteria.

Validity: 27/11/2023 to 14/10/2026

Initial Accreditation Date: 15/10/2020




Amina Ahmed Mohammed
CHIEF EXECUTIVE OFFICER
APPROVAL



Trans Asia Industrial Laboratories L.L.C

Warehouse No 10, Al Qouz Industrial Area 1

Dubai- United Arab Emirates

Date: 18-12-2024

Environmental Testing

Accreditation History		
Issue no.	Details	Date
04	Reissued due to a modification in test methods	18-12-2024
03	Renewal of the accreditation and reduction in scope (remove the Microbiology tests)	27-11-2023
02	Certificate validity was extended for 3 months from 15-10-2023 to 14-01-2024 and reduction in scope .	15-10-2023
01	Granted accreditation from EIAC	15-10-2020

Metallurgy Testing

Accreditation History		
Issue no.	Details	Date
04	Reissued due to extension in scope	18-12-2024
03	Renewal of the accreditation	27-11-2023
02	Certificate validity was extended for 3 months from 15-10-2023 to 14-01-2024 and reduction in scope .	15-10-2023
01	Granted accreditation from EIAC	15-10-2020

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Issue no.: 04

Date: 18-12-2024

Valid to: 14-10-2026

Type of Activity	Test Materials/Products	Test Name	Test Method
Chemistry	Domestic, Potable, Non potable Water & Recreational water	Metals Aluminum (Al),Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Boron (B), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Copper (Cu), Iron (Fe), Lead (Pb), Manganese (Mn), Nickel (Ni), Selenium (Se), Silver (Ag), Zinc (Zn), Molybdenum (Mo), Tin (Sn), Tantalium (Ta), Tellurium (Te), Thorium (Th), Calcium (Ca), Magnesium (Mg), Sodium (Na), Potassium (K)	APHA 3120 B 24 th Edition, & 3030 E (for digestion) 24 th Edition
Chemistry	Domestic, Potable, Non potable Water & Recreational water	pH	APHA 4500 H+B, 24 th Edition
Chemistry	Domestic, Potable, Non potable Water & Recreational water	Conductivity	APHA 2510 B, 24 th Edition
Chemistry	Domestic, Potable, Non potable Water & Recreational water	Turbidity	APHA 2130 B 24 th Edition

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemistry	Domestic, Potable, Non potable Water & Recreational water	Carbonates	APHA 2320 B 24 th Edition
Chemistry	Domestic, Potable, Non potable Water & Recreational water	Bicarbonates	APHA 2320 B 24 th Edition
Chemistry	Domestic, Potable, Non potable Water & Recreational water	Total Alkalinity	APHA 2320 B 24 th Edition
Chemistry	Domestic, Potable, Non potable Water & Recreational water	Ca Hardness as CaCo3	TIL/CHEM/SOP-10 Issue no. 01, Rev. 02 APHA (24 th Edition, 2023) 2340 B & 3120 B
Chemistry	Domestic, Potable, Non potable Water & Recreational water	Total Hardness (by calculation)	APHA 2340 B 24 th Edition
Chemistry	Domestic, Potable, Non potable Water & Recreational water	Chloride	APHA 4500 Cl B 24 th Edition
Chemistry	Domestic, Potable, Non potable Water & Recreational water	Total dissolved solids	APHA 2540 C 24 th Edition
Chemistry	Domestic, Potable, Non potable Water & Recreational water	Total suspended solids	APHA 2540 D 24 th Edition

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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical Testing	Ferrous & Non Ferrous	Standard Test Method for Tension testing of Metallic materials	ASTM A370 ASTM E8 BS EN 6892 Part 1
Mechanical Testing	Ferrous & Non Ferrous	Cross Weld Tensile Test	ASME SEC IX AWS D1.1 AWS D1.2 AWS D1.6 API 1104 BS EN ISO 15614 Part 1 BS EN ISO 4136
Mechanical Testing	Ferrous & Non Ferrous	Through Thickness Tensile Test (TTT)	ASTM A770/A770M BS EN ISO 10164
Mechanical Testing	Ferrous & Non Ferrous	Charpy impact test Standard Test Methods and Definitions for Mechanical Testing of Steel Products (Ambient to Minus 196 Deg C)	ASTM E23 BS EN ISO 148 Part 1 ASME SEC II Part C
Mechanical Testing	Ferrous & Non Ferrous	Standard Test Method for Rockwell Hardness of Materials – HRC	ASTM E18 BS EN ISO 6508 Part 1

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Mechanical Testing	Ferrous & Non Ferrous	Standard Test Method for Knoop and Vickers Hardness of Materials – Vickers Hardness Test (Hv5,10&30)	ATM E92 BS EN ISO 6507 Part 1
Mechanical Testing	Ferrous & Non Ferrous	Macro Hardness Survey of weld	ASME SEC IX AWS D1.1 AWS D1.6 API 1104 BS EN ISO 15614 Part 1 NACE MR 0175/ISO 15156 Part 2
Mechanical Testing	Ferrous & Non Ferrous	Guided Bend Test for Ductility of Welds & Material	ASTM E290 ASTM E190 ASME SEC IX AWS D1.1 AWS D1.2 AWS D1.6 API 1104 BS EN ISO 15614 Part 1 BS EN ISO 5173 A+1
Mechanical Testing	Ferrous & Non Ferrous	Fracture Test (Fillet)	ASME SEC IX AWS D1.1

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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical Testing	Ferrous & Non Ferrous	Nick break test	API 1104 AWS D1.2
Mechanical Testing	Ferrous & Non Ferrous	Standard Test Method for Tension testing of Metallic materials	ASTM B557 API 5L 46th Edition
Mechanical Testing	Ferrous & Non Ferrous	Charpy impact test Standard Test Methods and Definitions for Mechanical Testing of Steel Products (Ambient to Minus 196 Deg C)	ASTM A370
Mechanical Testing	Ferrous & Non Ferrous	Macro Hardness Survey of	BS EN ISO 9015 Part 1
Mechanical Testing	Ferrous & Non Ferrous	Guided Bend Test for Ductility of Material	ASTM A370
Mechanical Testing	Ferrous & Non Ferrous	Fracture Test (Fillet)	BS EN ISO 9017 BS EN ISO 5817
Mechanical Testing	Ferrous & Non Ferrous	Proof Load Test	ASTM A370 ISO 898 Part 1 ISO 898 Part 2
Metallography	Ferrous & Non Ferrous	Macro etching of Metals and Alloys(Material)	ASTM E340 ASTM E381

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Type of Activity	Test Materials/Products	Test Name	Test Method
Metallography	Ferrous & Non Ferrous	Micro etching of Metals and Alloys(Material)	ASM Handbook Vol 9-9 th Edition ASTM E407
Metallography	Ferrous & Non Ferrous	Macro & Micro Examinations of material & Weldments	ASME SEC IX AWS D1.1 AWS D1.2 AWS D1.6 API 1104 BS EN ISO 17639
Metallography	Ferrous & Non Ferrous	Insitu Replica Metallography	ASTM E1351
Metallography	Ferrous & Non Ferrous	Micro Detecting Detrimental Intermetallic Phase	ASTM A923 Method A
Metallography	Ferrous & Non Ferrous	Grain Size Measurement	ASTM E112
Metallography	Ferrous & Non Ferrous	Ferrite Measurement by Manual Count Method	ASTM E562
Corrosion	Ferrous & Non Ferrous	Pitting Corrosion Test	ASTM G48 Method A & C, & ASTM A923 Method C

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Corrosion	Ferrous & Non Ferrous	Intergranular Corrosion Test Austenitic Stainless Steel	ASTM A262 Method B & E
Corrosion	Ferrous & Non Ferrous	Intergranular Corrosion Test Wrought, Nickel-Rich, Chromium-Bearing Alloys	ASTM G28 Method A
Corrosion	Ferrous	Hydrogen Induced Cracking Test (HIC)	NACE TM 0284
Corrosion	Ferrous	Sulfide Stress corrosioncracking Test (SSCC) Method A	NACE TM 0177 NACE MR 0175/ISO 15156 Part 1 & Part 2
Corrosion	Ferrous	Sulfide Stress corrosion cracking Test (SSCC) Four point bend Test	NACE TM 0177 & ASTM G39 NACE MR 0175/ISO 15156 Part 1 & Part 2 EFC Publications 16
Corrosion	Ferrous	Stress Oriented Hydrogen Induced Cracking (SOHIC)	NACE MR 0175/ISO 15156 Part 1 & Part 2 EFC Publications 16

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Chemistry	Ferrous & Non Ferrous	Carbon & Low Alloy Steel, Austenitic Stainless steel, Nickel Alloy, Steel products, Brass products, Bronze products, Carbon & high Alloy steel, Aluminium alloy sand casting, Seamless Copper, Copper Alloy (seamless Red brass), Steam or Valve Bronze Castings, Copper-silicon Plate	ASTM E415 ASTM E1086 ASTM A751 ASTM B26 ASTM B42 ASTM B43 ASTM B61 ASTM B96
Chemistry	Ferrous & non-ferrous	Aluminium & its alloys	ASTM E1251
Chemistry	Ferrous & non-ferrous	Copper & its alloys	BS EN 15079