



ACCREDITATION CERTIFICATE

LB-TEST-196

Emirates International Accreditation Centre

has accredited

TMK GULF INTERNATIONAL PIPE INDUSTRY LLC

Sohar Pipes Real Estates Phase V, Plot # 5103

Sohar-Sultanate of Oman

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: 20/01/2022 to 19/01/2025

Initial Accreditation Date: 20/01/2019




CHIEF EXECUTIVE OFFICER
APPROVAL



Accreditation Scope
Metallurgical Testing
LB-TEST-196

TMK Gulf International Pipe Industry LLC

Sohar Pipes Real Estates Phase V, Plot # 5103

Sohar-Sultanate of Oman

Issue no.: 03

Date: 20-01-2022

Valid to: 19-01-2025

Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical Test	Carbon Steel Pipes	Tensile Test for determination of Ultimate Tensile Strength Yield Strength % Elongation	ASTM A370 Standard Test Methods and definitions for Mechanical Testing of Steel Products
		Range of Load : 20 kN to 800 kN at Ambient Temperature Range of Elongation up to 60%	ASTM E8/E8M Standard Test Methods for Tension Testing of Metallic Materials
Mechanical Test	Carbon Steel Pipes	Charpy V-Notch Impact Test Range of Test Temperature : -80°C to Ambient Temperature Range of Absorb Energy : 2.0 Joule to 500 Joule	ASTM A370 Standard Test Methods and definitions for Mechanical Testing of Steel Products

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Issue no.: 03

Date: 20-01-2022

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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical Test	Carbon Steel Pipes	Charpy V-Notch Impact Test Range of Test Temperature : -80°C to Ambient Temperature Range of Absorb Energy : 2.0 Joule to 500 Joule	ASTM E23 Standard Test Methods for Notched Bar Impact Testing of Metallic Materials
Mechanical Test	Carbon Steel Pipes	Vickers Hardness Test Vickers Hardness Range : Hv5 & Hv10	ASTM E 92 Standard Test Method for Knoop and Vickers Hardness of Materials - Vickers Hardness Test

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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical Test	Polyethylene and Polypropylene	Petroleum and natural gas industries — External coatings for buried or submerged pipelines used in pipeline transportation systems — Part 1: Polyolefin coatings (3-layer PE and 3-layer PP) Impact Test at at 0°C to 23°C	ISO 21809 Part 1 Annex E

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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical Test	Polyethylene and Polypropylene	Petroleum and natural gas industries — External coatings for buried or submerged pipelines used in pipeline transportation systems — Part 1: Polyolefin coatings (3-layer PE and 3-layer PP) Indentation Test at 23°C to 120°C	ISO 21809 Part 1 Annex F
Mechanical Test	Polyethylene and Polypropylene	Plastics — Determination of tensile properties — Part 2: Test conditions for moulding and extrusion plastics. % of Elongation	ISO 527 Part 2

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemistry	Carbon Steel Pipes	Spectrometry for Determination % of C, Si, Mn, Ni, Cr, Cu, Nb, P, S, Al, Mo, V, Ti, Ca, B	ASTM E415 Standard Test Method for Analysis of Low-Alloy Carbon Steel by Spark Atomic Emission Spectrometry
Chemistry	Carbon Steel Pipes	Spectrometry for Determination % of C, Si, Mn, Ni, Cr, Cu, Nb, P, S, Al, Mo, V, Ti, Ca, B	ASTM A751 Standard Test Methods, Practices, and Terminology for Chemical Analysis of Steel Products
Corrosion Test	Carbon Steel Pipes	Hydrogen Induced Cracking (HIC)	NACE TM0284 Evaluation of Pipeline and Pressure Vessel Steels for Resistance to Hydrogen-Induced Cracking.

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Corrosion Test	Carbon Steel Pipes	Sulfide Stress Corrosion Cracking (SSCC)	NACE TM0177 Laboratory Testing of Metals for Resistance to Sulfide Stress Cracking and Stress Corrosion Cracking in H ₂ S Environments
Corrosion Test	Carbon Steel Pipes	Sulfide Stress Corrosion Cracking (SSCC)	ASTM G39 Standard practice for preparation and use of bent-beam stress corrosion test specimens
Corrosion Test	Polyethylene and Polypropylene	Hot Water Immersion Test upto 95°C	ISO 21809 Part 1 Annex L
Corrosion Test	Polyethylene and Polypropylene	Cathodic disbondment test upto 95°C	ISO 21809 Part Annex H

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Type of Activity	Test Materials/Products	Test Name	Test Method
Corrosion Test	Fusion Bonded Epoxy	Thermal analysis of epoxy and cured epoxy coating film	ISO 21809 Part 1 Annex D
Corrosion Test	CARBON STEEL PIPES	Sulfide Stress Corrosion Cracking (SSCC)	NACE TM0316 Four-Point Bend Testing of Materials for Oil and Gas Applications

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Type of Activity	Test Materials/Products	Test Name	Test Method
Metallography	CARBON STEEL PIPES/COILS	Standard Test Methods for Determining Average Grain Size	ASTM E112

Accreditation History		
Issue no.	Details	Date
03	Renewal accreditation and extension in scope	20-01-2022
02	Re-issued to comply with the new accreditation number format	24-01-2021
01	Granted accreditation from Emirates International Accreditation Centre 'EIAC'	20-01-2019