

Pakistan National Accreditation Council

Ministry of Science & Technology Government of Pakistan Islamabad



Certificate of Accreditation

is awarded to

PAKISTAN INSTITUTE OF TECHNOLOGY FOR MINERALS & ADVANCED ENGINEERING MATERIALS (PITMAEM) Pakistan Council of Scientific & Industrial Research (PCSIR) Laboratories Complex, Lahore 54600, Pakistan.

in accordance with the requirements of ISO/IEC 17025:2017

The accreditation is subject to regular surveillance and compliance to the requirements of PNAC.

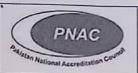
For scope of accreditation, see appendix.

Accreditation Certificate Number: Lab 035

Date of Issue: 17-06-2022

Director General

Valid until 16-06-2025



F-06/02

Issue Date: 18/08/2020

Rev. No: 09 LAB 035

Accreditation No: LAB 035

Awarded to

Pakistan Institute of Technology for Minerals and Advanced Engineering Materials (PITMAEM), Pakistan Council of Scientific & Industrial Research (PCSIR) Labs. Complex. Lahore 54600, Pakistan.

The scope of accreditation is in accordance with the standard specifications outlined in the following page(s) of this document. The accredited scope shall be visible and legible in areas such as customer service, sample-receiving section etc and shall not mislead its users.

The accreditation was first time granted on 24-08-2006 by Pakistan National Accreditation Council.

The laboratory complies with the requirements of ISO/IEC 17025:2017.

The accreditation requires regular surveillance, and is valid until 16-06-2025.

The decision of accreditation made by Pakistan National Accreditation Council implies that the organization has been found to fulfill the requirements for accreditation within the scope.

The organization however, itself is responsible for the results of performed measurements/tests.

PAKISTAN NATIONAL ACCREDITATION COUNCIL

13-12-2022 Date

Director General



F-06/02

Issue Date: 18/08/2020

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Testing Laboratory.

Accreditation scope of Pakistan Institute of Technology for Minerals and Advanced Engineering Materials (PITMAEM), Pakistan Council of Scientific & Industrial Research (PCSIR) Laboratories Complex, Lahore 54600, Pakistan.

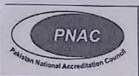
Permanent laboratory premises X

Testing field (e.g. environmental testing or mechanical testing)	Types of test/ Properties measured	Reference to standardized method (e.g. ISO 14577-1:2003)/ Internal method reference
1. Meta	llography Laboratory.	
	Test Method for Preparation of Metallographic Specimens	ASTM E 3:2017
	Test Method for Micro- etching Metals and Alloys	ASTM E 407:2015
		SASO ISO 22991:2019
		SASO GSO ISO 17639
Material Characterization	Test Method for Macro- etching Metals and Alloys	ASTM E 340:2015
Wateriar Characterization		SASO ISO 22991:2019
	The last of the la	SASO GSO ISO 17639
	Test Method for Determining Average Grain Size	ASTM E 112:2021
		SASO ISO 22991:2019
		SASO ISO 643
	Test Method for Measurement of Metal and Oxide Coating Thickness by Microscopical Examination of a Cross Section.	ASTM B 487:2020
		0
	environmental testing or mechanical testing)	Testing field (e.g. environmental testing or mechanical testing) 1. Metallography Laboratory. Test Method for Preparation of Metallographic Specimens Test Method for Microetching Metals and Alloys Test Method for Metals and Alloys Test Method for Macroetching Metals and Alloys Test Method for Determining Average Grain Size Test Method for Measurement of Metal and Oxide Coating Thickness by Microscopical Examination of a Cross

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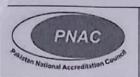
Issue Date: 18/08/2020

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Materials/Pr oducts tested	Testing field (e.g. environmental testing or mechanical testing)	Types of test/ Properties measured	Reference to standardized method (e.g. ISO 14577-1:2003)/ Internal method reference	
		Test Method for Evaluating the Microstructure of Graphite	ASTM A 247:2019	
	2. Optical Emis	ssion Spectrometer Laboratory	7	
Metallic Materials Material Characterization		Optical Emission Vacuum Spectrometric Analysis of Carbon and Low Alloy Steel	ASTM E 415-21	
	Material Characterization		SASO ISO 22991:2019 SASO/ISO 4978	
		Optical Emission Vacuum Spectrometric Analysis of Stainless Steel by Point to Plane Excitation Technique	ASTM E 1086:2022	
		Analysis of Manganese Steel using Atomic Emission Spectrometry	ASTM E 2209:2022	
		Analysis of Cast Iron using Optical Emission Spectrometry	ASTM E 1999:2018	
		Optical Emission Spectrometric Analysis of Aluminum and Aluminum Alloys by the Argon Atmosphere Point to Plane, Unipolar Self-Initiating Capacitor Discharge	ASTM E 1251;17a	
		Practice for Sampling Steel and Iron for Determination of Chemical Composition	ASTM E 1806:2018	
	Chemical Testing	Standard Test Methods for Chemical Analysis of Tool Steels and Other Similar Medium- and High-Alloy Steels and standard guide fo metal identification and grade verification	ASTM E352:2018 ASTM E1476-04:2014	

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Materials/Pr oducts tested	Testing field (e.g. environmental testing or mechanical testing)	Types of test/ Properties measured	Reference to standardized method (e.g. ISO 14577- 1:2003)/ Internal method reference
	Chemical Testing	Determination of Carbon in Steel and Iron by combustion and Inert Gas fusion technique	ASTM E1019:2018
	3. M 6	echanical Laboratory	
Metallic Materials Mechanical Testing	Mechanical Testing	Test Method for Tension testing of deformed steel bars	ASTM A 370:2021
	Test Method for Rockwell hardness of Metallic Materials	ASTM E 18:2022	
	Notched Bar (Charpy) Impact Testing of Metallic Materials	ASTM E-23:2018	
Ceramic Materials	Mechanical Testing	Determination of Modulus of Rupture of Marble	ASTM C-99:2018
	4. Cylin	der Testing Laboratory	
		Pressure Cyclic Test	EVS –EN 14427:2014
Liquid Petroleum Gas (LPG) Composite Cylinder Mechanical Testing		Burst Test	
		Torque Test	
	Machanical Testina	Leak Test	
	Wechanical Testing	Pressure Proof Test	ISO 11119-3: 2020(E)
		Drop Test	
		Flawed Cylinder Test	
	Exposure to Elevated Temperature at Test Pressure	EVS-EN 14427:2014	

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Materials/Pr oducts tested		Types of test/ Properties measured	Reference to standardized method (e.g. ISO 14577- 1:2003)/ Internal method reference
LPG Metallic Cylinders Mechanical Testing		Burst Test Under Hydraulic Pressure	SASO-GSO-ISO 22991 :2019
	Pressure Test		
	Pressure Cycling Test		

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