

ACCREDITATION DOCUMENT

F-06/02

Issue Date: 18/08/2020

Rev. No: 09 LAB 037

Accreditation No: LAB 037

Awarded to

Glass & Ceramics Research Centre (GCRC), 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

25-04-2024	sd
Date	Director General



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Testing Laboratory.

Accreditation scope of Glass & Ceramics Research Centre (GCRC), Pakistan Council of Scientific & Industrial Research (PCSIR) Laboratories Complex, Lahore 54600, Pakistan.

Permanent laboratory premises



Materials/ Products 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
	Ceramics '	Testing Laboratory	
		1. Cement	
		Moisture Content	
		Loss on ignition (LOI)	
		Acid Insoluble Residue (IR)	
		Silica (SiO ₂), Dry	
		Alumina (Al ₂ O ₃), Dry	ASTM C114-18
		Iron oxide (Fe ₂ O ₃)	
Cement	Physiochemical	Calcia (CaO), Dry	
	Testing	Magnesia (MgO), Dry	
		Soda (Na ₂ O)	
		Potash (K ₂ O)	
		Sulphur trioxide (SO ₃), Dry	
		Lime Saturation Factor (LSF)	
Phases		Tricalcium Silicate (C3S)	
	Dhagas	Dicalcium Silicate (C2S)	PS 232-5.1.1:1983
	Filases	Tricalcium Aluminate (C3A)	ASTM C 150-22
	Tetracalcium Aluminoferrite (C4AF)		
		2. Limestone	1
		Free Moisture	
		Loss on ignition (LOI)	
		Silica (SiO ₂), Dry	
		Alumina (Al ₂ O ₃), Dry	ASTM C 25-19
		Iron oxide (Fe ₂ O ₃)	

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Limestone	Chemical Testing	Calcia (CaO), Dry	
		Magnesia (MgO), Dry	-
		Soda (Na ₂ O)	-
		Potash (K ₂ O)	
		Carbon dioxide (CO ₂)	
		Calcium Carbonate (CaCO ₃)	
		Magnesium Carbonate (MgCO ₃)	
		Total Sulfur (S)	
		Total Carbon (C)	
		Combined (R ₂ O ₃)	
		3. Sanitary ware Testing La	aboratory
		Dimensions	GS SASO 1024-2:1998 BS 31-2:1999 BS EN 14688-6:2006
White bodies (Porous/Vitreous)	Physical Testing	Dangerous Substance	BS-EN 14688-4.9:2006 ASTM C 738 6-16
		Water Absorption	GS-SASO 1024-2:1998 BS 3402-6:1969 ASTM C 97 7,10-15
		Crazing	GS-SASO 1024-3:1998 BS 3402-7:1969 ASTM C 424 5-16
		Resistance to Attack Test	GS-SASO 1024 4,5,6,7:1998
		Thickness	GS SASO 1024-9:1998
		Marking	GS-SASO 1024-9:1998
		Free Moisture	ASTM C 323 7.1-16
		Loss on ignition (LOI)	ASTM C 323 8.1-16
		Silica (SiO ₂), Dry	ASTM C 323 9.1-16
		Combined (R ₂ O ₃), Dry	ASTM C 323 10.1-16
		Iron Oxide (Fe ₂ O ₃)	ASTM C 323 11.1&2- 16
		Alumina (Al ₂ O ₃), Dry	ASTM C 323 13.1-16
		Calcium Oxide, (CaO), Dry	ASTM C 323 14.1-16
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		Magnesium Oxide, (MgO), Dry	ASTM C 323 15.1-16
White Ware Clay	Chemical Testing	Carbon, (C) Dry	ASTM C323 14.1 & 15.1 -16
		Calcium Carbonate, (CaCO ₃)	ASTM C 323 14.1-16
		Magnesium Carbonate, (MgCO ₃)	ASTM C 323 15.1-16
		Carbon Dioxide, (CO ₂)	ASTM C 323 14.1 & 15.1 -16

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