

NO: SAMM 259(Issue 2, 05 June 2025 replacement
of SAMM 259 dated 05 June 2025)

Page: 1 of 3

LABORATORY LOCATION/ CENTRAL OFFICE:	Pahang Cement Sdn Bhd P.O.Box 232 Bukit Sagu 4 25720 Kuantan, Pahang , 25727, PAHANG MALAYSIA
	
ACCREDITED SINCE :	05 JUNE 2025
FIELD(S) OF TESTING:	CHEMICAL MECHANICAL

This laboratory has demonstrated its technical competence to operate in accordance with MS ISO/IEC 17025:2017 (ISO/IEC 17025:2017).

This laboratory's fulfillment of the requirements of ISO/IEC 17025 means the laboratory meets both the technical competence requirements and management system requirements that are necessary for it to consistently deliver technically valid test results and calibrations. The management system requirements in ISO/IEC 17025 are written in language relevant to laboratory operations and operate generally in accordance with the principles of ISO 9001 (see Joint ISO-ILAC-IAF Communiqué dated April 2017).

CENTRAL LOCATION:	Pahang Cement Sdn Bhd P.O.Box 232 Bukit Sagu 4 25720 Kuantan, Pahang , 25727, Pahang
FIELD(S) OF TESTING :	CHEMICAL, MECHANICAL

SCOPE OF TESTING : CHEMICAL

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Cement & Clinker	<u>Chemical properties:</u>	
	Loss on Ignition (LoI)	MS EN 196-2:2020 Clause 4.4.1 BS EN 196-2:2013 Clause 4.4.1
	Insoluble Residue (Ir)	MS EN 196-2:2020 Clause 4.4.3 BS EN 196-2:2013 Clause 4.4.3
	Sulfate Content (as SO ₃)	MS EN 196-2:2020 Clause 4.4.2 BS EN 196-2:2013 Clause 4.4.2
	Determination of alkali: • As Potassium Oxide (K ₂ O) • As Sodium Oxide (Na ₂ O)	MS EN 196-2:2020 Clause 4.5.19 (Flame Photometer) BS EN 196-2:2013 Clause 4.5.19

NO: SAMM 259(Issue 2, 05 June 2025 replacement
of SAMM 259 dated 05 June 2025)

Page: 2 of 3

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Chloride (Cl ⁻)	MS EN 196-2:2020 Clause 4.5.16
	Calcium Oxide (CaO)	MS EN 196-2:2020 Chemical Analysis by X-ray Fluorescence Clause 5
	Silica (SiO ₂)	
	Aluminium Oxide (Al ₂ O ₃)	MS EN 196-2:2020 National Annex NA
	Ferric Oxide (Fe ₂ O ₃)	
	Magnesium Oxide (MgO)	
	Sulfate content (as SO ₃)	
	Phosphorus Pentoxide (P ₂ O ₅)	
	Titanium Oxide (TiO ₂)	
	Pottasium Oxide (K ₂ O)	
	Sodium Oxide (Na ₂ O)	
	Free lime (F.CaO)	
Gypsum	Sulfate Content (as SO ₃) % free moisture	ASTM C471M – 20ae1 Clause 14 ASTM C471M – 20ae1 Clause 7

SCOPE OF TESTING : MECHANICAL

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Cement	<u>Physical Properties:</u>	
	Fineness- Blaine Method (m ² /kg)	MS EN 196-6:2021 Clause 4 BS EN 196-6:2010, Clause 4 (Ref. SS 544: Part 2:2014, Annex ZZC)
	Standard consistence (%) w/w	MS EN 196-3:2022 Clause 5 BS EN 196-3:2016, Clause 5 (Ref. SS 544: Part 2:2014, Annex ZZC)

Schedule

Issue date: 05 June 2025

Valid Until: -



NO: SAMM 259

(Issue 2, 05 June 2025 replacement of SAMM 259 dated 05 June 2025)

Page: 3 of 3

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Setting time • Initial (minutes) • Final (minutes)	MS EN 196-3:2022 Clause 6 BS EN 196-3:2016, Clause 6 (Ref. SS 544: Part 2:2014, Annex ZZC)
	Soundness (mm)	MS EN 196-3:2022 Clause 7 BS EN 196-3:2016, Clause 7 (Ref. SS 544: Part 2:2014, Annex ZZC)
	Mortar Prism Compressive Strength (N/mm ²)	MS EN 196-1:2021 BS EN 196-1:2016 (Ref. SS 544: Part 2:2014, Annex ZZC)

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