

Certificate N°: 260609052D



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Job No : J0254M-DB25 / BO 200008043

ANALYSIS REPORT

In accordance with the instructions received from **M/s. ARABIAN YEMEN CEMENT COMPANY LTD**, Yemen – Hudhramout - Mukalla - Alayoun area, we have arranged laboratory test on sample submitted to us:

Scope of Intervention:

To arrange analysis of sample submitted to us in an SGS / Independent lab for the parameters reported below.

Description of Sample (as stated): PORTLAND CEMENT – EN197-1:2011 CEMI 42.5N

On which we report as follows:

As per client's instructions the sample was analysed at SGS / Independent lab for requested parameters and the test results received are reported as follows:

PARAMETERS - Chemical	TEST METHOD	UNIT	RESULTS
Silica (SiO ₂)	BS EN 196-2	%	21.48
Aluminium Oxide (Al ₂ O ₃)	BS EN 196-2	%	4.70
Iron Oxide (Fe ₂ O ₃)	BS EN 196-2	%	3.82
Calcium Oxide (CaO)	BS EN 196-2	%	61.98
Magnesium Oxide (MgO)	BS EN 196-2	%	1.34
Sodium Oxide (Na ₂ O)	BS EN 196-2	%	0.39
Potassium Oxide (K ₂ O)	BS EN 196-2	%	0.30
Sulphur Trioxide (SO ₃)	BS EN 196-2	%	2.90
Chloride (Cl)	BS EN 196-2	%	0.024
Chromium (Cr)	Based on ASTM C 1301/ ICP-OES	%	0.002
Loss on Ignition (LOI)	BS EN 196-2	%	1.59
Tricalcium Aluminate (C ₃ A)	By Calculation	%	5.99
Tetra Calcium Aluminato-Ferrite (C ₄ AF)	By Calculation	%	11.62

PARAMETERS - Physical	TEST METHOD	UNIT	RESULTS
Soundness by Le-Chatelier method	BS EN 196-3: 2016	mm	1.0
Specific Surface (Blaine)	BS EN 196-6: 2018	m ² /kg	337
Setting Time (Vicat Method), Initial	BS EN 196-3: 2016	Minutes	150
Setting Time (Vicat Method), Final	BS EN 196-3: 2016	Minutes	180
Compressive Strength @ 02 days	BS EN 196-1: 2016	MPa	20.4
Compressive Strength @ 07 days	BS EN 196-1: 2016	MPa	33.0
Compressive Strength @ 28 days	BS EN 196-1: 2016	MPa	51.0

Sample received on 14.04.2026

WARNING: The sample(s) to which the findings recorded herein (the "Findings") relate was (were) drawn and / or provided by the Client or by a third party acting at the Client's direction. The Findings constitute no warranty of the sample's representativeness of any goods and strictly relate to the sample(s). The Company accepts no liability with regard to the origin or source from which the sample(s) is/are said to be extracted.

Signed and dated at SGS Dubai
On 19th May 2026

For and on behalf of
SGS GULF LTD

SGS Gulf Limited

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