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ص.ب. ٥٦٠ - روي الرمز البريدي ١١٢
مسقط سلطنة عمان
هاتف: (٩٦٨) ٢٤٤٣٧٠٧٠
فاكس: (٩٦٨) ٢٤٤٣٧٧٧٧
س.ر.م.ع.ع: ١/٠٦١٢٣/٢
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عضو الاتحاد العربي
للإسمنت ومواد البناء

TEST CERTIFICATE OF ORDINARY PORTLAND CEMENT

In accordance with OS 7:2001 OPC⁺, and BS EN 197-1:2011 CEM 1 42.5N

Note: It also conforms to specifications of ASTM C 150/150M-12 Type I

PHYSICAL TEST					CHEMICAL TEST				
REQUIREMENT		SPECIFICATIONS		TEST RESULTS	REQUIREMENT		SPECIFICATIONS		TEST RESULTS
		Max.	Min.				Max.	Min.	
Specific Surface Air Permeability Test (m ² /kg)		---	---	343	Silica (SiO ₂) %		---	---	20.45
Setting Time	Initial (Minutes)	---	60	157	Insoluble Residue (IR) ⁺ %		5.00	---	0.51
	Final (Minutes)	---	---	210	Alumina (Al ₂ O ₃) %		---	---	4.46
Soundness Le Chatelier Expansion (mm)		10.00	---	1.3	Ferric Oxide (Fe ₂ O ₃) %		---	---	4.15
Compressive Strength: Mortar Prisms		---	---		Lime (CaO) %		---	---	62.65
at 2 days	N/mm ²	---	10.0	21.4	Magnesia (MgO) ⁺ %		5.00	---	1.68
at 7 days	N/mm ²	---	---	31.4	Sulphur Trioxide (SO ₃) %		3.50	---	2.16
at 28 days	N/mm ² *	62.5	42.5	45.8	Loss on Ignition (LOI) ⁺ %		5.00	---	2.45
At 28 days: *Refers to cement despatch of week ending 17.10.19 Sampling / Testing Date: 02-07.11.19 Ref. No.: OPC19-45 Remarks: 25115 Issue Date: 14.11.19					Chloride (Cl) %		0.10	---	0.02
					Alkalies (Na ₂ O + 0.658 K ₂ O) ⁺ %		0.60	---	0.46
					Tricalcium Silicate (C ₃ S) %		---	---	57.57
					Dicalcium Silicate (C ₂ S) %		---	---	15.20
					Tricalcium Aluminate (C ₃ A) ⁺ %		---	---	4.80
					Lime Saturation Factor (LSF) %		102	66	93.61
					Alumina Modulus (AM)		---	0.64	1.07
					NOTE: OS 7:2001 OPC ⁺ Specifies: %IR = 1.50 max., %MgO = 6.00 max., %LOI = 3.00 max., %C ₃ A = 9.00 max. OPTIONAL: %Alkalies (Na ₂ O + 0.658 K ₂ O) = 0.60 max.				

ASST.MANAGER.QC

MANAGER QUALITY CONTROL

GENERAL MANAGER (Manuf.)

QC-F-001

1/1

End of Test Certificate

