



شركة عمان للЦемент (س.أ.و.ع)  
**Oman Cement Company (S.A.O.C)**

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 Cement and Building Materials

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 مواد البناء والاسمنت

**TEST CERTIFICATE OF ORDINARY PORTLAND CEMENT**

In accordance with ASTM C 150/150M-12 Type I

Note: It also conforms to specifications of OS 7:2001 OPC and BSEN 197-1:2011 CEM 1 42.5N

REQUIREMENT	PHYSICAL TEST		TEST RESULTS	REQUIREMENT	CHEMICAL TEST		TEST RESULTS
	Max.	Min.			Max.	Min.	
Air content of Mortar, Volume %	12	--	4.5	Silica (SiO <sub>2</sub> )	---	---	20.65
Specific Surface Air Permeability Test (m <sup>2</sup> /kg)	---	280	328	Insoluble Residue (IR)	0.75	---	0.44
Setting Time	Initial (Minute)	---	45	Alumina (Al <sub>2</sub> O <sub>3</sub> )	---	---	4.56
	Final (Minute)	---	375	Ferric Oxide (Fe <sub>2</sub> O <sub>3</sub> )	---	---	4.76
Soundness Autoclave Expansion (%)	0.80	---	0.01	Lime (CaO)	---	---	62.86
Compressive Strength:				Magnesia (MgO)	6.00	---	1.56
2.75 Sand: 1 Cement Mortar Cube				Sulphur Trioxide (SO <sub>3</sub> )	---	---	---
at 3 days +/-1hr (Mpa)	--	12.0	21.6	When CSA is 8% or less	3.00	---	2.25
at 7 days +/-2hrs (Mpa)	---	19.0	26.1	When CSA is more than 8%	3.50	---	---
at 28 days +/-12hrs (Mpa) *	---	28.0	34.5	Loss on Ignition (LOI)	3.00	---	2.05
Heat of Hydration at 7 days (kJ/kg) **	290	---	270	Alkalies (Na <sub>2</sub> O + 0.658 K <sub>2</sub> O)	0.60	---	0.46
At 28 days: *Refers to cement despatch of week ending:	23.01.2020			Tricalcium Silicate (C <sub>3</sub> S)	---	---	55.13
Sampling / Testing Date:	08-13.02.2020			Di-calcium Silicate (C <sub>2</sub> S)	---	---	17.63
Ref. No.:	OPC20-07			Tricalcium Aluminate (C <sub>3</sub> A)	---	---	4.03
Remarks:	PL-25338			Lime Saturation Factor (LSF)	---	---	92.62
Issue Date:	20.02.2020						

ASST.MANAGER.QC  
 QC-F-002  
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MANAGER.QUALITY CONTROL  
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End of Test Certificate



GENERAL MANAGER (Manuf.)  
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