



شركة عمان للخرسانة  
 (S.A.O.G) Oman Cement Company

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 عضو اتحاد العرب للخرسانة  
 والمواد الإنشائية

**TEST CERTIFICATE OF ORDINARY PORTLAND CEMENT**

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

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

P H Y S I C A L T E S T			C H E M I C A L T E S T		
REQUIREMENT	SPECIFICATIONS		REQUIREMENT	SPECIFICATIONS	
	Max.	Min.		Max.	Min.
Specific Surface Air Permeability Test (m <sup>2</sup> /kg)	---	---	Silica (SiO <sub>2</sub> ) %	---	20.65
Setting Time	Initial (Minutes) Final (Minutes)	60 ---	Insoluble Residue (IR) <sup>+</sup> %	5.00	0.44
Soundness Le Chatelet Expansion (mm)	10.00	---	Alumina (Al <sub>2</sub> O <sub>3</sub> ) %	---	4.56
Compressive Strength: Mortar Prisms	---	---	Ferric Oxide (Fe <sub>2</sub> O <sub>3</sub> ) %	---	4.76
at 2 days	N/mm <sup>2</sup>	10.0	Lime (CaO) %	---	62.86
at 7 days	N/mm <sup>2</sup>	---	Magnesia (MgO) <sup>+</sup> %	5.00	1.56
at 28 days	N/mm <sup>2</sup> *	62.5	Sulphur Trioxide (SO <sub>3</sub> ) %	3.50	2.25
			Loss on Ignition (LOI) <sup>+</sup> %	5.00	2.05
			Chloride (Cl) %	0.10	0.02
			Alkalies (Na <sub>2</sub> O + 0.658 K <sub>2</sub> O) <sup>+</sup> %	0.60	0.46
			Tricalcium Silicate (C <sub>3</sub> S) %	---	55.11
			Dicalcium Silicate (C <sub>2</sub> S) %	---	17.63
			Tricalcium Aluminate (C <sub>3</sub> A) <sup>+</sup> %	---	4.03
			Lime Saturation Factor (LSF) %	102	92.32
			Alumina Modulus (AM)	---	0.64
					0.96

NOTE: OS 7:2001 OPC<sup>+</sup> Specifies: %IR = 1.50 max., %MgO = 6.00 max., %LOI = 3.00 max., %C<sub>3</sub>A = 9.00 max.  
 OPTIONAL: %Alkalies (Na<sub>2</sub>O + 0.658 K<sub>2</sub>O) = 0.60 max.

At 28 days: \*Refers to cement despatch of week ending 23.01.2020  
 Sampling / Testing Date: 08-13.02.2020  
 Ref. No.: OPC20-07  
 Remarks: 25327  
 Issue Date: 20.02.2020

ASST.MANAGER.QC

MANAGER QUALITY CONTROL

GENERAL MANAGER (Manuf.)

