



شركة إسمنت عُمان (ش.م.ع.ع)  
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Cement and Building Materials

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

### TEST CERTIFICATE OF SULPHATE RESISTING CEMENT

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

Note: It also conforms to specifications of BSEN 197-1:2011 CEM 1 - SR 5 - 42.5N

PHYSICAL TEST				CHEMICAL TEST			
REQUIREMENT	SPECIFICATIONS		TEST	REQUIREMENT	SPECIFICATIONS		TEST
	Max.	Min.	RESULTS		Max.	Min.	RESULTS
Air content of Mortar, Volume %	12	--	5.5	Silica (SiO <sub>2</sub> )	---	---	21.36
Specific Surface Air Permeability Test (m <sup>2</sup> /kg)	---	280	325	Insoluble Residue (IR)	0.75	---	0.32
Setting Time	Initial (Minute)	---	45	Alumina (Al <sub>2</sub> O <sub>3</sub> )	---	---	4.12
	Final (Minute)	375	---	Ferric Oxide (Fe <sub>2</sub> O <sub>3</sub> )	---	---	4.74
Soundness Autoclave Expansion (%)	0.80	---	0.03	Lime (CaO)	---	---	63.66
Compressive Strength:				Magnesia (MgO)	6.00	---	1.75
2.75 Sand: 1 Cement Mortar Cube				Sulphur Trioxide (SO <sub>3</sub> )	2.30	---	1.51
at 3 days +/-1hr (Mpa)	--	8.0	21.4	Loss on Ignition (LOI)	3.00	---	1.40
at 7 days +/-2hrs (Mpa)	---	15.0	29.4	Alkalies (Na <sub>2</sub> O + 0.658 K <sub>2</sub> O)	0.60	---	0.47
at 28 days +/-12hrs (Mpa) *	---	21.0	34.2	Tricalcium Silicate (C <sub>3</sub> S)	---	---	58.06
Heat of Hydration at 7 days (kJ/kg)	---	---	247	Di-calcium Silicate (C <sub>2</sub> S)	---	---	17.44
At 28 days:*Refers to cement despatch of week ending:	17.10.19			Tetracalcium Aluminoferrite (C <sub>4</sub> AF)	---	---	14.42
Sampling / Testing Date:	02-07.11.19			Tricalcium Aluminate (C <sub>3</sub> A)	5.00	---	2.90
Ref. No.:	SRC19-45			2C <sub>3</sub> A + C <sub>4</sub> AF	25.00	---	20.22
Remarks:	SRC-5895						
Issue Date :	14.11.19						

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MANAGER QUALITY CONTROL



GENERAL MANAGER (Manuf.)