

HEIDELBERGCEMENT INDIA LTD, AMMASANDRA TEST REPORT FOR MYCEM

REF.: HCIL/QA/2014/46

DATE : 16.12.14

WEEK NO. : 46

HCIL(AMS)-QCD-F026
12-11-2014 to 18-11-2014

CHARACTERISTIC	RESULTS OBTAINED	REQUIREMENT OF IS455:1989
(A) CHEMICAL COMPOSITION		
(i) Magnesia (MgO), % by mass	8.28	10.0 Maximum
(ii) Insoluble Residue, % by mass	1.30	4.0 Maximum
(iii) Sulphuric Anhydride (SO ₃) % by mass	2.55	3.0 Maximum
(iv) Sulphide Sulphur (S)	0.29	1.5 Maximum
(v) Loss on Ignition % by mass	1.95	5.0 Maximum
(vi) Total Chloride (Cl), % by mass	0.0408	0.10 Maximum
(B) PHYSICAL TESTING		
1. Fineness of Cement		
Sp.Surface blaine (m ² /Kg)	352	225 m ² /kg minimum
2. Soundness		
Le-Chatelier Expansion (mm)	1.0	10 mm Maximum
Autoclave Expansion (%)	0.16	0.8 % Maximum
3. Setting Time		
Initial (in Minutes)	90	Not less than 30 minutes
Final (in Minutes)	185	Not more than 600 minutes
4. Compressive Strength (MPa)		
(a) At 72 ± 1 Hrs.	22.8	16 MPa Minimum
(b) At 168 ± 2 Hrs.	33	22 MPa Minimum
(c) At 672 ± 4 Hrs.	51	33 MPa Minimum

Remarks :

1. Physical Lab Temperature during testing - 27 ± 2° C
2. Portland Slag Cement conforms to the requirement of IS 455-1989 in all respects.


Mgr(QC)


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