

**HEIDELBERGCEMENT INDIA LTD, AMMASANDRA  
TEST REPORT FOR MYCEM**

REF.: HCIL/QA/2014/33

DATE : 23.09.14

WEEK NO. : 33

**HCIL(AMS)-QCD-F026**  
13-08-2014 to 19-08-2014

CHARACTERISTIC	RESULTS OBTAINED	REQUIREMENT OF IS455:1989
<b>(A) CHEMICAL COMPOSITION</b>		
(i) Magnesia (MgO), % by mass	8.69	10.0 Maximum
(ii) Insoluble Residue, % by mass	1.60	4.0 Maximum
(iii) Sulphuric Anhydride (SO <sub>3</sub> ) % by mass	2.60	3.0 Maximum
(iv) Sulphide Sulphur (S)	0.32	1.5 Maximum
(v) Loss on Ignition % by mass	1.72	5.0 Maximum
(vi) Total Chloride (Cl), % by mass	0.044	0.10 Maximum
<b>(B) PHYSICAL TESTING</b>		
<b>1. Fineness of Cement</b>		
Sp.Surface blaine (m <sup>2</sup> /Kg)	362	225 m <sup>2</sup> /kg minimum
<b>2. Soundness</b>		
Le-Chatelier Expansion (mm)	1.0	10 mm Maximum
Autoclave Expansion (%)	0.20	0.8 % Maximum
<b>3. Setting Time</b>		
Initial (in Minutes)	95	Not less than 30 minutes
Final (in Minutes)	200	Not more than 600 minutes
<b>4. Compressive Strength (MPa)</b>		
(a) At 72 ± 1 Hrs.	22.6	16 MPa Minimum
(b) At 168 ± 2 Hrs.	32.2	22 MPa Minimum
(c) At 672 ± 4 Hrs.	51.2	33 MPa Minimum

**Remarks :**

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

  
Mgr(QC)

  
GM (QC)