

**JSW Cement Limited
TEST REPORT**

Portland Slag Cement as per IS 455:2015

REF.: JSW/QA/2014 3

DATE : 29-01-2017

WEEK NO. : 3

15-01-2017 to 21-01-2017

CHARACTERISTIC	RESULTS OBTAINED	REQUIREMENT OF IS 455:2015
(A) CHEMICAL COMPOSITION		
(i) Magnesia (MgO), % by mass	4.61	10.0 Maximum
(ii) Insoluble Residue, % by mass	0.39	4.0 Maximum
(iii) Sulphuric Anhydride (SO ₃) % by mass	2.20	3.0 Maximum
(iv) Sulphide Sulphur (S)	0.23	1.5 Maximum
(v) Loss on Ignition % by mass	0.73	5.0 Maximum
(vi) Total Chloride (Cl), % by mass	0.012	0.10 Maximum
(B) PHYSICAL TESTING		
1. Fineness of Cement		
Sp.Surface blaine (m ² /kg)	340	225 m ² /kg minimum
2. Soundness		
Le-Chatelier Expansion (mm)	0.75	10 mm Maximum
Autoclave Expansion (%)	0.03	0.8 % Maximum
3. Setting Time		
Initial (in Minutes)	197	Not less than 30 minutes
Final (in Minutes)	240	Not more than 600 minutes
4. Compressive Strength (MPa)		
(a) At 72 ± 1 Hrs.	21.30	16 MPa Minimum
(b) At 168 ± 2 Hrs.	34.68	22 MPa Minimum
(c) At 672 ± 4 Hrs.	Result Awaited	33 MPa Minimum

Remarks :

- Temperature during testing - 27 ± 2° c.
- Portland Slag Cement conforms to the requirement of IS 455-2015 in all respects.

Address:

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Unit Head