

JSW Cement Limited

TEST REPORT

Portland Slag Cement as per IS 455:2015

REF.: JSW/QA/2014 21

DATE : 04-06-2017

WEEK NO. : 21

21-05-2017 to 27-05-2017

CHARACTERISTIC	RESULTS OBTAINED	REQUIREMENT OF IS 455:2015
(A) CHEMICAL COMPOSITION		
(i) Magnesia (MgO), % by mass	4.39	10.0 Maximum
(ii) Insoluble Residue, % by mass	0.36	4.0 Maximum
(iii) Sulphuric Anhydride (SO ₃) % by mass	2.78	3.0 Maximum
(iv) Sulphide Sulphur (S)	0.25	1.5 Maximum
(v) Loss on Ignition % by mass	0.86	5.0 Maximum
(vi) Total Chloride (Cl), % by mass	0.015	0.10 Maximum
(B) PHYSICAL TESTING		
1. Fineness of Cement		
Sp.Surface blaine (m ² /kg)	362	225 m ² /kg minimum
2. Soundness		
Le-Chatelier Expansion (mm)	0.64	10 mm Maximum
Autoclave Expansion (%)	0.04	0.8 % Maximum
3. Setting Time		
Initial (in Minutes)	178	Not less than 30 minutes
Final (in Minutes)	226	Not more than 600 minutes
4. Compressive Strength (MPa)		
(a) At 72 ± 1 Hrs.	25.94	16 MPa Minimum
(b) At 168 ± 2 Hrs.	36.65	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:

JSW CEMENT LIMITED
Village- Khar Karavi, Post Office- Gadab
Taluka- Pen, District- Raigad
402107, Maharashtra. +91 2143 277601/2



Unit Head