



JSW PSC Cement

START STRONG.GROW STRONGER.

TEST CERTIFICATE

Portland Slag Cement as per IS 455:2015

REF.: JSW/QA/2020 24

DATE : 15-07-2020

WEEK NO. : 24

10-06-2020 16-06-2020

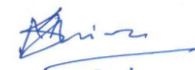
CHARACTERISTIC	RESULTS OBTAINED	REQUIREMENT OF IS 455:2015
(A) CHEMICAL COMPOSITION		
(i) Magnesia (MgO), % by mass	4.82	10.0 Maximum
(ii) Insoluble Residue, % by mass	0.37	4.0 Maximum
(iii) Sulphuric Anhydride (SO ₃) % by mass	2.57	3.5 Maximum
(iv) Sulphide Sulphur (S)	0.29	1.5 Maximum
(v) Loss on Ignition % by mass	1.50	5.0 Maximum
(vi) Total Chloride (Cl), % by mass	0.017	0.10 Maximum
(B) PHYSICAL TESTING		
1. Fineness of Cement		
Sp.Surface blaine (m ² /kg)	369	225 m ² /kg minimum
2. Soundness		
Le-Chatelier Expansion (mm)	1.00	10 mm Maximum
Autoclave Expansion (%)	0.059	0.8 % Maximum
3. Setting Time		
Initial (in Minutes)	170	Not less than 30 minutes
Final (in Minutes)	210	Not more than 600 minutes
4. Compressive Strength (MPa)		
(a) At 72 ± 1 Hrs.	33.67	16 MPa Minimum
(b) At 168 ± 2 Hrs.	41.14	22 MPa Minimum
(c) At 672 ± 4 Hrs.	54.58	33 MPa Minimum

Remarks :

1. Temperature during testing - 27 ± 2° c.
2. Portland Slag Cement conforms to the requirement of IS 455-2015 in all respects.
3. **Specific Gravity - 3.00 GGBS addition % 52 ± 2**

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