



## JSW PSC Cement

**THE LEADERS, CHOICE**

### TEST CERTIFICATE

Portland Slag Cement as per IS 455:2015

REF.: JSW/QA/2021 1

DATE : 05/02/2021

WEEK NO. : 1

01/01/2021 07/01/2021

CHARACTERISTIC	RESULTS OBTAINED	REQUIREMENT OF IS 455:2015
<b>(A) CHEMICAL COMPOSITION</b>		
(i) Magnesia (MgO), % by mass	4.86	10.0 Maximum
(ii) Insoluble Residue, % by mass	0.37	4.0 Maximum
(iii) Sulphuric Anhydride (SO <sub>3</sub> ) % by mass	2.27	3.5 Maximum
(iv) Sulphide Sulphur (S)	0.28	1.5 Maximum
(v) Loss on Ignition % by mass	2.02	5.0 Maximum
(vi) Total Chloride (Cl), % by mass	0.018	0.10 Maximum
<b>(B) PHYSICAL TESTING</b>		
<b>1. Fineness of Cement</b>		
Sp.Surface blaine (m <sup>2</sup> /kg)	367	225 m <sup>2</sup> /kg minimum
<b>2. Soundness</b>		
Le-Chatelier Expansion (mm)	1.00	10 mm Maximum
Autoclave Expansion (%)	0.060	0.8 % Maximum
<b>3. Setting Time</b>		
Initial (in Minutes)	170	Not less than 30 minutes
Final (in Minutes)	220	Not more than 600 minutes
<b>4. Compressive Strength (MPa)</b>		
(a) At 72 ± 1 Hrs.	31.21	16 MPa Minimum
(b) At 168 ± 2 Hrs.	39.77	22 MPa Minimum
(c) At 672 ± 4 Hrs.	54.70	33 MPa Minimum

**Remarks :**

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

**Address:**

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DGM - Quality