



## JSW PSC Cement

THE LEADERS' CHOICE

### TEST CERTIFICATE

Portland Slag Cement as per IS 455:2015

REF.: JSW/QA/2023/A-01

DATE : 03-09-22

WEEK NO. : 31

30-07-2023 05-08-2023

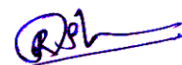
CHARACTERISTIC	RESULTS OBTAINED	REQUIREMENT OF IS 455:2015
<b>(A) CHEMICAL COMPOSITION</b>		
(i) Magnesia (MgO), % by mass	5.21	10.0 Maximum
(ii) Insoluble Residue, % by mass	0.42	4.0 Maximum
(iii) Sulphuric Anhydride (SO <sub>3</sub> ) % by mass	2.07	3.5 Maximum
(iv) Sulphide Sulphur (S)	0.22	1.5 Maximum
(v) Loss on Ignition % by mass	0.78	5.0 Maximum
(vi) Total Chloride (Cl), % by mass	0.016	0.10 Maximum
<b>(B) PHYSICAL TESTING</b>		
<b>1. Fineness of Cement</b>		
Sp.Surface (m <sup>2</sup> /kg)	361	225 m <sup>2</sup> /kg minimum
<b>2. Soundness</b>		
Le-Chatelier Expansion (mm)	1.00	10 mm Maximum
Autoclave Expansion (%)	0.054	0.8 % Maximum
<b>3. Setting Time</b>		
Initial (in Minutes)	205	Not less than 30 minutes
Final (in Minutes)	260	Not more than 600 minutes
<b>4. Compressive Strength (MPa)</b>		
(a) At 72 ± 1 Hr.	25.72	16 MPa Minimum
(b) At 168 ± 2 Hrs.	32.64	22 MPa Minimum
(c) At 672 ± 4 Hrs.	44.28	33 MPa Minimum
<b>5. Normal Consistency</b>	31.25	--
<b>6. GGBS addition (%)</b>	55.00	25% MIN & 70% MAX

**Remarks :**

- Temperature during testing - 27 ± 2° c.
- Portland Slag Cement conforms to the requirement of IS 455:2015 in all respects.
- Specific Gravity :- 3.05

**Address:**

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



HOD - Quality Control