



JSW OPC Cement : 53 GRADE

THE LEADERS' CHOICE

TEST CERTIFICATE

Ordinary Portland Cement as per IS 269:2015

REF.: JSW/QA/2022 34

DATE : 03-09-2022

WEEK NO. : 34

20-08-2022 26-08-2022

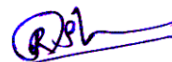
CHARACTERISTIC	RESULTS OBTAINED	REQUIREMENT OF IS 269:2015
(A) CHEMICAL COMPOSITION		
(i) Lime Saturation Factor	0.93	0.80 to 1.02
(ii) Alumina Modulus, Ratio	1.73	0.66 Minimum
(iii) Insoluble residue (IR) % by mass	0.42	5.0 Maximum
(iv) Magnesia (MgO) % by mass	2.70	6.0 Maximum
(v) Sulphuric Anhydride % by mass	2.39	3.5 Maximum
(vi) Loss on ignition (LOI), % by mass	2.68	4.0 Maximum
(vii) Chloride, % by mass	0.016	0.10 Maximum
(B) PHYSICAL TESTING		
1. Fineness of Cement		
Sp.Surface (m ² /kg)	323	225 minimum
2. Soundness		
Le-Chatelier Expansion (mm)	1.00	10 Maximum
Autoclave Expansion (%)	0.048	0.8 Maximum
3. Setting Time		
Initial (in Minutes)	200	30 Minimum
Final (in Minutes)	255	600 Maximum
4. Compressive Strength (MPa)		
(a) At 72 ± 1 Hr.	40.58	27 MPa Minimum
(b) At 168 ± 2 Hrs.	46.74	37 MPa Minimum
(c) At 672 ± 4 Hrs.	RA	53 MPa Minimum
5. Specific Gravity	3.14	--

Remarks :

- Temperature during testing - 27 ± 2° c.
- Ordinary Portland Cement conforms to the requirements of IS 269:2015 in all respects.

Address:

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HOD-Quality Control