

JSW OPC Cement : 53 GRADE

START STRONG.GROW STRONGER.

TEST CERTIFICATE

Ordinary Portland Cement as per IS 269:2015

REF.: JSW/QA/2019 31

DATE : 03-09-2019

WEEK NO. : 31

30-07-2019 05-08-2019

CHARACTERISTIC	RESULTS OBTAINED	REQUIREMENT OF IS 269:2015
(A) CHEMICAL COMPOSITION		
(i) Lime Saturation Factor	0.84	0.80 to 1.02
(ii) Alumina Modulus, % by mass	1.99	0.66 Minimum
(iii) Insoluble residue (IR) % by mass	0.39	5.0 Maximum
(iv) Magnesia (MgO) % by mass	2.80	6.0 Maximum
(v) Sulphuric Anhydrite % by mass	2.42	3.5 Maximum
(vi) Loss on ignition (LOI), % by mass	2.89	4.0 Maximum
(vi) Chloride , % by mass	0.015	0.10 Maximum
(B) PHYSICAL TESTING		
1. Fineness of Cement		
Sp.Surface blaine (m ² /kg)	332	225 minimum
2. Soundness		
Le-Chatelier Expansion (mm)	1.50	10 Maximum
Autoclave Expansion (%)	0.060	0.8 Maximum
3. Setting Time		
Initial (in Minutes)	160	30 Minimum
Final (in Minutes)	190	600 Maximum
4. Compressive Strength (MPa)		
(a) At 72 ± 1 Hrs.	38.89	27 MPa Minimum
(b) At 168 ± 2 Hrs.	46.64	37 MPa Minimum
(c) At 672 ± 4 Hrs.	55.93	53 MPa Minimum

Remarks :

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

Address:

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



Associated General Manager