



Zuari Cement Ltd
SOLAPUR GRINDING UNIT
SOLAPUR, MAHARASHTRA



ENGINEERED FOR DURABILITY

TEST CERTIFICATE		Week No	18
ORDINARY PORTLAND CEMENT 43G		Year	2024
SAMPLE TEST TYPE	RESULT OBTAINED FROM TEST	REQUIREMENT	IS : 269-2015
PHYSICAL REQUIREMENTS			
1. Fineness -Blaine(M ² /Kg)	268	Not less than 225 M ² /Kg	
2.Soundness:			
A.Autoclave Expansion (%)	0.042	Not more than 0.8 %	
B.Le Chatelier Expansion (in mm)	1.00	Not more than 10 mm	
3.Setting Time (in minutes)			
A.Initial	155	Not less than 30 minutes	
B.Final	215	Not more than 600 minutes	
4.Compressive Strength (MPa)			
A.72 ± 1 hr.(3 days)	32.6	Not Less than 23 MPa	
B.168 ± 2 hr.(7 days)	42.3	Not Less than 33 MPa	
C.672 ± 4 hr.(28 days)	UT	Min 43 Mpa & Max 58 Mpa	
CHEMICAL REQUIREMENTS			
1.Loss on Ignition (% by mass)	1.24	5 % Maximum	
2.Insoluble Residue (% by mass)	4.87	5 % Maximum	
3.Magnesium Oxide (MgO) (% by mass)	1.16	6.0 % Maximum	
4.Total Sulphur content calculated as (SO ₃) (% by mass)	2.79	3.5 % Maximum	
5.Chlorides (% by mass)	0.021	0.10 % Maximum	
6.Lime Saturation Factor			
$C_{ao} - 0.7 S_{o3}$ (2.8 SiO ₂ + 1.2 AL ₂ O ₃ +0.65Fe ₂ O ₃)	0.83	0.66 to 1.02	
7.A/F (Al ₂ O ₃ / Fe ₂ O ₃)	1.35	0.66 Minimum	
8.Performance Improver Fly Ash (%)	5.00	5.0 % Maximum	
Water required for paste of standard consistency (%)	29.00		

The above cement complies with the requirements of IS 269 : 2015 For ORDINARY PORTLAND CEMENT 43G

Computer generated Report, hence Signature is not required

For BIS certification details see website bis.org.in

For Zuari Cement Ltd
MANAGER (QC)