



## **Zuari Cement Ltd**

.

SOLAPUR GRINDING UNIT SOLAPUR, MAHARASHTRA



## ENGINEERED FOR DURABILITY

	TEST CERTIFICATE	Week No 18
	ORDINARY PORTLAND CEMENT 53G	Year 2022
SAMPLE	RESULT OBTAINED	REQUIREMENT
TEST TYPE	FROM TEST	IS : 269-2015
PHYSICAL REQUIREMENTS		
1. Fineness -Blaine(M²/Kg)	285	Not less than 225 M²/Kg
2.Soundness:		
A.Autoclave Expansion (%)	0.045	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	150	Not less than 30 minutes
B.Final	230	Not more than 600 minutes
4.Compressive Strength (MPa)		
A.72 ± 1 hr.(3 days)	35.5	Not Less than 27 MPa
B.168 ± 2 hr.(7 days)	45.7	Not Less than 37 MPa
C.672 ± 4 hr.(28 days)	60.1	Not Less than 53 MPa
CHEMICAL REQUIREMENTS		
1.Loss on Ignition (% by mass)	1.26	4 % Maximum
2.Insoluble Residue (% by mass)	4.76	5 % Maximum
3.Magnesium Oxide (MgO) (% by mass)	1.41	6.0 % Maximum
4.Total Sulphur content calculated as (SO3) (% by mass)	2.65	3.5 % Maximum
5.Chlorides (% by mass)	0.018	0.10 % Maximum
6.Lime Saturation Factor		
<u>Cao - 0.7 So3</u> (2.8 SiO2+ 1.2 AL2O3+0.65Fe2O3)	0.85	0.80 to 1.02
7.A/F (Al2O3 / Fe2O3)	1.35	0.66 Minimum
8.Performance Improver Fly Ash (%)	5.00	5.0 % Maximum

Water required for paste of standard consistency (%)

28.50

The above cement complies with the requirements of IS 269 : 2015 For ORDINARY PORTLAND CEMENT 53G

Computer generated Report, hence Signature is not required

For BIS certification details see website bis.org.in

For Zuari Cement Ltd MANAGER (QC)