



Zuari Cement Ltd

SOLAPUR GRINDING UNIT SOLAPUR, MAHARASHTRA



ENGINEERED FOR DURABILITY

	TEST CERTIFICATE PORTLAND POZZOLANA CEMENT	Week No 19
I		Year 2022
SAMPLE	RESULT OBTAINED	REQUIREMENT
TEST TYPE	FROM TEST	IS-1489(PART-1):2015
PHYSICAL REQUIREMENTS		
. Fineness -Blaine(M²/Kg)	328	Not less than 300 M ² /Kg
.Soundness:		
.Autoclave Expansion (%)	0.030	Not more than 0.8 %
3.Le Chatelier Expansion (in mm)	1.00	Not more than 10 mm
.Setting Time (in minutes)		
A.Initial	145	Not less than 30 minutes
3.Final	220	Not more than 600 minutes
I.Compressive Strength (MPa)		
A.72 ± 1 hr.(3 days)	23.7	Not Less than 16 MPa
3.168 ± 2 hr.(7 days)	32.5	Not Less than 22 MPa
2.672 ± 4 hr.(28 days)	UT	Not Less than 33 MPa
5.Dry Shrinkage %	UT	Not more than 0.15 %
CHEMICAL REQUIREMENTS		
.Loss on Ignition (% by mass)	1.31	5 % Maximum
Insoluble Residue (% by mass)		
ı.Max	31.00	x+4(100-x)/100
B.Min		x*0.6
		where ${\bf x}$ is the declared % Fly ash in the given Portland Pozzolana Cement
s.Magnesium Oxide (MgO) (% by mass)	1.30	6.0 % Maximum
I.Total Sulphur content calculated as (SO3) (%	by mass) 2.50	3.5 % Maximum
i.Chlorides (% by mass)	0.031	0.10 % Maximum
6.Declared % Fly Ash	35.00	15.0% TO 35.0 %
Water required for paste of standard consiste	ency (%) 30.50	

The above cement complies with the requirements of IS 1489(PART-1): 2015 For PORTLAND POZZOLANA CEMENT

Computer generated Report, hence Signature is not required For BIS certification details see website bis.org.in

For Zuari Cement Ltd MANAGER (QC)