



Zuari Cement Ltd

SOLAPUR GRINDING UNIT SOLAPUR, MAHARASHTRA



ENGINEERED FOR DURABILITY

	TEST CERTIFICATE PORTLAND POZZOLANA CEMENT	Week No 18 Year 2022
SAMPLE	RESULT OBTAINED	REQUIREMENT
TEST TYPE	FROM TEST	IS-1489(PART-1):2015
DUVOICAL DECLUBEMENTS		· · · · · ·
PHYSICAL REQUIREMENTS 1. Fineness -Blaine(M²/Kg)	329	Not less than 300 M²/Kg
2.Soundness:	329	NOT less than 500 M-7Kg
A.Autoclave Expansion (%)	0.025	Not more than 0.8 %
B.Le Chatelier Expansion (in mm)	1.00	Not more than 10 mm
3.Setting Time (in minutes)		Not more than 10 mm
A.Initial	165	Not less than 30 minutes
B.Final	240	Not more than 600 minutes
4.Compressive Strength (MPa)		
A.72 ± 1 hr.(3 days)	23.3	Not Less than 16 MPa
B.168 ± 2 hr.(7 days)	34.0	Not Less than 22 MPa
C.672 ± 4 hr.(28 days)	49.5	Not Less than 33 MPa
5.Dry Shrinkage %	UT	Not more than 0.15 %
CHEMICAL REQUIREMENTS		
1.Loss on Ignition (% by mass)	1.28	5 % Maximum
2.Insoluble Residue (% by mass)		
A.Max	32.00	x+4(100-x)/100
B.Min		x*0.6
		where ${\bf x}$ is the declared % Fly ash in the given Portland Pozzolana Cement
3.Magnesium Oxide (MgO) (% by mass)	1.26	6.0 % Maximum
4.Total Sulphur content calculated as (SO3)	(% by mass) 2.34	3.5 % Maximum
5.Chlorides (% by mass)	0.025	0.10 % Maximum
6.Declared % Fly Ash	35.00	15.0% TO 35.0 %
Water required for paste of standard cons	istency (%) 30.25	

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)