



Zuari Cement Ltd

SOLAPUR GRINDING UNIT SOLAPUR, MAHARASHTRA



ENGINEERED FOR DURABILITY

	TEST CERTIFICATE PORTLAND POZZOLANA CEMENT	Week No 28 Year 2022
ı		
SAMPLE	RESULT OBTAINED	REQUIREMENT
TEST TYPE	FROM TEST	IS-1489(PART-1):2015
PHYSICAL REQUIREMENTS		
. Fineness -Blaine(M²/Kg)	334	Not less than 300 M²/Kg
.Soundness:		
A.Autoclave Expansion (%)	0.032	Not more than 0.8 %
3.Le Chatelier Expansion (in mm)	1.00	Not more than 10 mm
S.Setting Time (in minutes)		
A.Initial	145	Not less than 30 minutes
3.Final	210	Not more than 600 minutes
Compressive Strength (MPa)		
A.72 ± 1 hr.(3 days)	23.3	Not Less than 16 MPa
3.168 ± 2 hr.(7 days)	33.0	Not Less than 22 MPa
C.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)	1.48	5 % Maximum
Insoluble Residue (% by mass)		
ı.Max	31.70	x+4(100-x)/100
3.Min		x*0.6
		where ${\bf x}$ is the declared % Fly ash in the given Portland Pozzolana Cement
.Magnesium Oxide (MgO) (% by mass)	1.33	6.0 % Maximum
I.Total Sulphur content calculated as (SO3) (%	by mass) 2.60	3.5 % Maximum
Chlorides (% by mass)	0.034	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)