





Zuari Cement Ltd

SOLAPUR GRINDING UNIT SOLAPUR, MAHARASHTRA

ENGINEERED FOR DURABILITY

| | TEST CERTIFICATE | Week No | 6 |
|--|------------------------------|---------------------------|------|
| | 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 (%) | 0.047 | Not more than 0.8 % | |
| 3.Le Chatelier Expansion (in mm) | 1.00 | Not more than 10 mm | |
| 3.Setting Time (in minutes) | | | |
| A.Initial | 175 | Not less than 30 minutes | |
| B.Final | 240 | Not more than 600 minutes | |
| 1.Compressive Strength (MPa) | | | |
| A.72 ± 1 hr.(3 days) | 36.7 | Not Less than 27 MPa | |
| 3.168 ± 2 hr.(7 days) | 46.6 | Not Less than 37 MPa | |
| C.672 ± 4 hr.(28 days) | UT | Not Less than 53 MPa | |
| CHEMICAL REQUIREMENTS | | | |
| 1.Loss on Ignition (% by mass) | 1.27 | 4 % Maximum | |
| 2.Insoluble Residue (% by mass) | 3.98 | 5 % Maximum | |
| 3.Magnesium Oxide (MgO) (% by mass) | 1.40 | 6.0 % Maximum | |
| 4.Total Sulphur content calculated as (SO3) (% by mass) | 2.45 | 3.5 % Maximum | |
| 5.Chlorides (% by mass) | 0.014 | 0.10 % Maximum | |
| S.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 | |
| | | | |

28.75

Water required for paste of standard consistency (%)

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)