



JSW Cement Ltd

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CIN - U26957MH2006PLC160839



TC-11908



ISO 9001, ISO 14001, ISO 50001 & OHSAS 18001
Certified by IRQS

IS 16415:2015



CM/L-6200134386

TEST REPORT

| | | ULR | TC-119082300000008F |
|--|---|----------------------|----------------------------------|
| Customer Name & Address: | Marketing JSW CEMENT LTD PO Vidyanagar, Tornagallu, Bellary 583275 , Karnataka | Date Of Issue | : 28.08.2023 |
| Let. Ref. No | : NA | Sample Received Date | : 29.07.2023 |
| Type of Sample | : CC | Sample Ref ID | : JSW/VNR/ 645 WEEK No:30 |
| Sample Description | : Composite Cement | Duration of Testing | : 30.07.2023 to 27.08.2023 |
| Condition of sample | : UNSEALED | Test Method | : IS: 4032-1985 IS: 4031-1988 |
| Environmental Condition Duration of Testing | Temperature: 27 °C | Relative Humidity | : 68 % |

TEST RESULT CHEMICAL PARAMETERS

| Sr. No | Test Parameters | Test Method | Unit | Results | Requirement IS: 16415-2015 |
|--------|---------------------------------------|---------------|------|---------|--------------------------------|
| 1 | Insoluble Residue (% by mass) | IS: 4032-1985 | % | 15.29 | Minimum 15.0 % -Maximum 35.0 % |
| 2 | Magnesia Oxide (MgO),(%by mass) | IS: 4032-1985 | % | 3.26 | Maximum 8.0 % |
| 3 | Sulphur Trioxide (SO3)(%by mass) | IS: 4032-1985 | % | 1.86 | Maximum 3.5 % |
| 4 | Sulphide Sulphur (% by mass) | IS: 4032-1985 | % | 0.18 | Maximum 0.75 % |
| 5 | Loss on Ignition (% by mass) | IS: 4032-1985 | % | 2.52 | Maximum 5.0 % |
| 6 | Chloride Content(%by mass) | IS: 4032-1985 | % | 0.004 | Maximum 0.10 % |
| 7 | Alkali Content(%) as Na2O | IS: 4032-1985 | % | 0.39 | Maximum 0.6 % |





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MGMT. SYS.
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TEST REPORT PHYSICAL PARAMETERS

| Sr. No | Test Parameters | Method of tests | Unit | Results | Requirement IS: 16415-2015 |
|--------|--|-----------------------|--------------------|-------------------------|---|
| 1 | Consistency | IS 4031(Part 4)-1988 | % | 30.00 | Not specified |
| 2 | Fineness | IS 4031(Part 2)-1999 | M ² /Kg | 340 | Shall not be less than 300 m ² /kg |
| 3 | Initial Setting Time | IS 4031(Part 5)-1988 | Minutes | 160 | Shall not be less than 30 Minutes |
| 4 | Final Setting Time | IS 4031(Part 5)-1988 | Minutes | 255 | Shall not be more than 600 Minutes |
| 5 | Soundness (by Le-Chateliers) | IS 4031(Part 3)-1988 | mm | 1.00 | Shall not be more than 10 mm |
| 6 | Soundness (by Autoclave) | IS 4031(Part 3)-1988 | % | 0.01 | Shall not be more than 0.8 % |
| 7 | Compressive Strength; a) 72 ± 1h(3 days) b) 168 ± 2h(7 days) c) 672 ± 4h(28 days) | IS 4031(Part 6)-1988 | Mpa | 25.30 35.50 51.70 | Shall not be less than 16.0 Mpa Shall not be less than 22.0 Mpa Shall not be less than 33.0 Mpa |
| 8 | Drying shrinkage | IS 4031(Part 10)-1988 | % | 0.03 | Maximum 0.15 % |

- Note:
- 1) This report is based on the sample received by our laboratory.
 - 2) The test result relates only to the item tested.
 - 3) This report shall not be reproduced, except in full, without the written permission of our Laboratory.
 - 4) Statement of conformity to a specification is provided considering the level of risk associated with decision
 - 5) Measurement Uncertainty is not taken into consideration while stating conformity with the specified requirements as requested by the customer.
 - 6) Any correction invalidates this report.

Reviewed and Authorized Signature

Name: H. K. Dabholkar

Designation: DGM

END OF THE REPORT