

PREPARED FOR TITAN CEMENT Ltd. HULL

| | | |
|---------------------------|--------------------------|-------------|
| REPORT REFERENCE | Titan | 113 |
| CLIENT REFERENCE | CHEMISTRY | 2023 |
| SHIP REFERENCE | "2-23" | |
| SAMPLE | ORDINARY PORTLAND CEMENT | |
| DATE OF RECEIPT OF SAMPLE | 7-Feb-23 | |
| DATE OF TESTS | 7-Feb-23 | to 7-Mar-23 |
| DATE OF REPORT | 7-Mar-23 | |

ALL RESULTS RELATE ONLY TO SAMPLE TESTED CHEMICAL COMPOSITION :- by mass, as received

| | | |
|------------------------|--------|-------------------|
| IR | 0.51 % | (BSEN 196-6:2010) |
| SO ³ | 2.75 % | (BSEN 196-3:2016) |
| LOI | 2.42 % | (BSEN 196-3:2016) |
| K ₂ O | 0.54 % | (BSEN 196-3:2016) |
| Na ₂ O | 0.16 % | (BSEN 196-3:2016) |
| Na ₂ O (eq) | 0.52 % | (BSEN 196-3:2016) |
| Chloride | 0.02 % | (BSEN 196-3:2016) |

The following results are not covered by the laboratory's UKAS Schedule and were determined by xrf.

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|--------------------------------|-----------|--------|
| SiO ₂ | 20.68 MPa | By XRF |
| Al ₂ O ₃ | 5.23 MPa | By XRF |
| Fe ₂ O ₃ | 4.14 MPa | By XRF |
| CaO | 63.4 MPa | By XRF |
| MgO | 1.63 MPa | By XRF |

The following results are not UKAS accredited:-

| | |
|-------------------|---------|
| L.S.F. | 0.92 % |
| C ₃ A | 6.86 % |
| C ₃ S | 46.07 % |
| C ₂ S | 24.54 % |
| C ₄ AF | 12.59 % |
| Free Lime | 1.48 % |

END OF REPORT

SIGNED:



Certificate signed by:

✓ S. Burton A.M.I.C.T
Technical Manager

J.M. Burton
Quality Manager