

An independent testing laboratory specialising in the testing of cementitious materials

| PREPARED FOR TITAN CEMENT Ltd. HULL |                          |              |
|-------------------------------------|--------------------------|--------------|
| REPORT REFERENCE                    | Titan                    | 137          |
| CLIENT REFERENCE                    | CHEMISTRY                | 2024         |
| SHIP REFERENCE                      | "1-25                    |              |
| SAMPLE                              | ORDINARY PORTLAND CEMENT |              |
| DATE OF RECEIPT OF SAMPLE           | 20-Feb-25                |              |
| DATE OF TESTS                       | 20-Feb-25                | to 20-Mar-25 |
| DATE OF REPORT                      | 20-Mar-25                |              |

ALL RESULTS ARE BASED ON SAMPLE RECEIVED FROM THE CLIENT: TESTED AS RECEIVED.

CHEMICAL COMPOSITION :- by mass, as received

|                        |        |                    |
|------------------------|--------|--------------------|
| IR                     | 0.47 % | (BSEN 196-6:2010 ) |
| SO <sup>3</sup>        | 2.81 % | (BSEN 196-3:2016)  |
| LOI                    | 3.50 % | (BSEN 196-3:2016)  |
| K <sub>2</sub> O       | 0.51 % | (BSEN 196-3:2016)  |
| Na <sub>2</sub> O      | 0.25 % | (BSEN 196-3:2016)  |
| Na <sub>2</sub> O (eq) | 0.59 % | (BSEN 196-3:2016)  |
| Chloride               | 0.03 % | (BSEN 196-3:2016)  |

The following results are determined by XRF by an outside accredited laboratory.

|                                |       |        |
|--------------------------------|-------|--------|
| SiO <sub>2</sub>               | 20.44 | By XRF |
| Al <sub>2</sub> O <sub>3</sub> | 3.83  | By XRF |
| Fe <sub>2</sub> O <sub>3</sub> | 4.19  | By XRF |
| CaO                            | 64.7  | By XRF |
| MgO                            | 2.69  | By XRF |

The following results are not UKAS accredited:-

|                   |         |
|-------------------|---------|
| L.S.F.            | 0.97 %  |
| C <sub>3</sub> A  | 3.07 %  |
| C <sub>3</sub> S  | 60.76 % |
| C <sub>2</sub> S  | 12.78 % |
| C <sub>4</sub> AF | 12.74 % |
| Free Lime         | 1.86 %  |

END OF REPORT

SIGNED:



Certificate signed by:

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

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