

# KIRTON CONCRETE SERVICES LTD

## INDEPENDENT TESTING LABORATORY

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1175

### TEST REPORT

Client :- TITAN CEMENT LTD. HULL  
Report reference :- CHEMISTRY 61  
Ship reference :- "4-19  
Sample :- ORDINARY PORTLAND CEMENT  
Sand :- FRENCH  
Date received :- 30-Apr-19  
Date of tests :- 30-Apr-19 to 28/05/2019

All results are based on sample received from the client

CHEMICAL COMPOSITION:- % by mass, as received

|                       |                        |
|-----------------------|------------------------|
| IR                    | 0.33 (BSEN 196-2:2013) |
| SO <sub>3</sub>       | 2.54 (BSEN 196-2:2013) |
| LOI                   | 2.19 (BSEN 196-2:2013) |
| K <sub>2</sub> O      | 0.56 (BSEN 196-2:2013) |
| Na <sub>2</sub> O     | 0.17 (BSEN 196-2:2013) |
| Na <sub>2</sub> O(eq) | 0.54 (BSEN 196-2:2013) |
| Chloride              | 0.02 (BSEN 196-2:2013) |

The results determined by XRF analysis are not covered by the laboratories accreditation.

|                                |              |
|--------------------------------|--------------|
| SiO <sub>2</sub>               | 20.87 by XRF |
| Al <sub>2</sub> O <sub>3</sub> | 5.14 by XRF  |
| Fe <sub>2</sub> O <sub>3</sub> | 4.03 by XRF  |
| CaO                            | 64.3 by XRF  |
| MgO                            | 1.14 by XRF  |

The following results are not UKAS accredited:-

|                   |       |
|-------------------|-------|
| L.S.F.            | 0.93  |
| C <sub>3</sub> A  | 6.81  |
| C <sub>3</sub> S  | 49.98 |
| C <sub>2</sub> S  | 22.14 |
| C <sub>4</sub> AF | 12.25 |
| Free Lime         | 1.4   |

End of Report

Signed.....

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Date 28/05/2019

J.M. Burton

Quality Manager

S. Burton

Technical Manager