

KIRTON CONCRETE SERVICES LTD

INDEPENDENT TESTING LABORATORY

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1175

TEST REPORT

Client :- TITAN CEMENT LTD. HULL
Report reference :- CHEMISTRY 67
Ship reference :- "11-19
Sample :- ORDINARY PORTLAND CEMENT
Sand :- FRENCH
Date received :- 16-Oct-19
Date of tests :- 16-Oct-19 to 13/11/2019

All results are based on sample received from the client

CHEMICAL COMPOSITION:- % by mass, as received

| | |
|-----------------------|------------------------|
| IR | 0.37 (BSEN 196-2:2013) |
| SO ₃ | 2.68 (BSEN 196-2:2013) |
| LOI | 2.58 (BSEN 196-2:2013) |
| K ₂ O | 0.59 (BSEN 196-2:2013) |
| Na ₂ O | 0.17 (BSEN 196-2:2013) |
| Na ₂ O(eq) | 0.56 (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 ₂ | 20.17 by XRF |
| Al ₂ O ₃ | 4.73 by XRF |
| Fe ₂ O ₃ | 4.11 by XRF |
| CaO | 64.7 by XRF |
| MgO | 1.03 by XRF |

The following results are not UKAS accredited:-

| | |
|-------------------|-------|
| L.S.F. | 0.97 |
| C ₃ A | 5.59 |
| C ₃ S | 58.64 |
| C ₂ S | 13.60 |
| C ₄ AF | 12.49 |
| Free Lime | 1.47 |

A handwritten signature in black ink, appearing to be 'S. Burton'.

End of Report

Signed.....

Page 1 of 3

Date 13/11/2019

J.M. Burton

Quality Manager

S. Burton

Technical Manager