

# KIRTON CONCRETE SERVICES LTD

## INDEPENDENT TESTING LABORATORY

MANOR HOUSE, STATION ROAD, HIBALDSTOW, BRIGG. DN20 9EB

TEL: 01652 656931 EMAIL: [KIRTONLAB@AOL.COM](mailto:KIRTONLAB@AOL.COM)



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### TEST REPORT

Client :- TITAN CEMENT LTD. HULL  
Report reference :- CHEMISTRY 57  
Ship reference :- "9-18  
Sample :- ORDINARY PORTLAND CEMENT  
Sand :- FRENCH  
Date received :- 08-Jan-19  
Date of tests :- 08-Jan-19 to 05/02/2019

All results are based on sample received from the client

CHEMICAL COMPOSITION:- % by mass, as received

IR	0.24 (BSEN 196-2:2013)
SO <sub>3</sub>	2.89 (BSEN 196-2:2013)
LOI	2.39 (BSEN 196-2:2013)
K <sub>2</sub> O	0.59 (BSEN 196-2:2013)
Na <sub>2</sub> O	0.16 (BSEN 196-2:2013)
Na <sub>2</sub> O(eq)	0.55 (BSEN 196-2:2013)
Chloride	0.01 (BSEN 196-2:2013)

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

SiO <sub>2</sub>	20.4 by XRF
Al <sub>2</sub> O <sub>3</sub>	4.15 by XRF
Fe <sub>2</sub> O <sub>3</sub>	3.99 by XRF
CaO	65.0 by XRF
MgO	0.93 by XRF

The following results are not UKAS accredited:-

L.S.F.	0.97
C <sub>3</sub> A	4.25
C <sub>3</sub> S	62.60
C <sub>2</sub> S	11.28
C <sub>4</sub> AF	12.13
Free Lime	1.29

End of Report

Signed.....

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Date 06/02/2019

J.M. Burton

Quality Manager

S. Burton

Technical Manager