

# KIRTON CONCRETE SERVICES LTD

## INDEPENDENT TESTING LABORATORY

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### TEST REPORT

Client :- TITAN CEMENT LTD. HULL  
Report reference :- CHEMISTRY 64  
Ship reference :- "8-19  
Sample :- ORDINARY PORTLAND CEMENT  
Sand :- FRENCH  
Date received :- 20-Aug-19  
Date of tests :- 20-Aug-19 to 17/09/2019

All results are based on sample received from the client

CHEMICAL COMPOSITION:- % by mass, as received

IR	0.41 (BSEN 196-2:2013)
SO <sub>3</sub>	2.51 (BSEN 196-2:2013)
LOI	2.36 (BSEN 196-2:2013)
K <sub>2</sub> O	0.53 (BSEN 196-2:2013)
Na <sub>2</sub> O	0.18 (BSEN 196-2:2013)
Na <sub>2</sub> O(eq)	0.53 (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>	19.37 by XRF
Al <sub>2</sub> O <sub>3</sub>	4.28 by XRF
Fe <sub>2</sub> O <sub>3</sub>	4.18 by XRF
CaO	64.7 by XRF
MgO	0.92 by XRF

The following results are not UKAS accredited:-

L.S.F.	1.01
C <sub>3</sub> A	4.28
C <sub>3</sub> S	68.41
C <sub>2</sub> S	3.94
C <sub>4</sub> AF	12.71
Free Lime	1.43

End of Report

Signed.....

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Date 17/09/2019

J.M. Burton

Quality Manager

S. Burton

Technical Manager