

# KIRTON CONCRETE SERVICES LTD

## INDEPENDENT TESTING LABORATORY

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### TEST REPORT

Client :- TITAN CEMENT LTD. HULL  
Report reference :- CHEMISTRY 68  
Ship reference :- "12-19  
Sample :- ORDINARY PORTLAND CEMENT  
Sand :- FRENCH  
Date received :- 10-Dec-19  
Date of tests :- 10-Dec-19 to 07/01/2020

All results are based on sample received from the client

CHEMICAL COMPOSITION:- % by mass, as received

IR	0.30 (BSEN 196-2:2013)
SO <sub>3</sub>	2.62 (BSEN 196-2:2013)
LOI	2.26 (BSEN 196-2:2013)
K <sub>2</sub> O	0.55 (BSEN 196-2:2013)
Na <sub>2</sub> O	0.17 (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>	20.37 by XRF
Al <sub>2</sub> O <sub>3</sub>	4.85 by XRF
Fe <sub>2</sub> O <sub>3</sub>	4.089 by XRF
CaO	64.3 by XRF
MgO	1.12 by XRF

The following results are not UKAS accredited:-

L.S.F.	0.95
C <sub>3</sub> A	5.94
C <sub>3</sub> S	54.52
C <sub>2</sub> S	17.28
C <sub>4</sub> AF	12.43
Free Lime	1.55

End of Report

Signed.....

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Date 09/01/2020

J.M. Burton

Quality Manager

S. Burton

Technical Manager