

# KIRTON CONCRETE SERVICES LTD

## INDEPENDENT TESTING LABORATORY

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### TEST REPORT

Client :- TITAN CEMENT LTD. HULL  
Report reference :- CHEMISTRY 88  
Ship reference :- "6-21  
Sample :- ORDINARY PORTLAND CEMENT  
Sand :- FRENCH  
Date received :- 18-May-21  
Date of tests :- 18-May-21 to 15/06/2021

All results are based on sample received from the client

CHEMICAL COMPOSITION:- % by mass, as received

IR	0.48 (BSEN 196-2:2013)
SO <sub>3</sub>	2.58 (BSEN 196-2:2013)
LOI	2.19 (BSEN 196-2:2013)
K <sub>2</sub> O	0.60 (BSEN 196-2:2013)
Na <sub>2</sub> O	0.17 (BSEN 196-2:2013)
Na <sub>2</sub> 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 <sub>2</sub>	19.40 by XRF
Al <sub>2</sub> O <sub>3</sub>	3.96 by XRF
Fe <sub>2</sub> O <sub>3</sub>	4.23 by XRF
CaO	64.9 by XRF
MgO	0.84 by XRF

The following results are not UKAS accredited:-

L.S.F.	1.02
C <sub>3</sub> A	3.35
C <sub>3</sub> S	68.88
C <sub>2</sub> S	3.67
C <sub>4</sub> AF	12.86
Free Lime	1.95

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

End of Report

Signed.....

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Date 15/06/2021

J.M. Burton

Quality Manager

S. Burton

Technical Manager