

# 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)



1175

### TEST REPORT

Client :- TITAN CEMENT LTD. HULL  
Report reference :- CHEMISTRY 86  
Ship reference :- "4-21  
Sample :- ORDINARY PORTLAND CEMENT  
Sand :- FRENCH  
Date received :- 23-Mar-21  
Date of tests :- 23-Mar-21 to 20/04/2021

All results are based on sample received from the client

CHEMICAL COMPOSITION:- % by mass, as received

IR	0.53 (BSEN 196-2:2013)
SO <sub>3</sub>	2.47 (BSEN 196-2:2013)
LOI	2.50 (BSEN 196-2:2013)
K <sub>2</sub> O	0.58 (BSEN 196-2:2013)
Na <sub>2</sub> O	0.17 (BSEN 196-2:2013)
Na <sub>2</sub> O(eq)	0.55 (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>	20.79 by XRF
Al <sub>2</sub> O <sub>3</sub>	4.86 by XRF
Fe <sub>2</sub> O <sub>3</sub>	4.31 by XRF
CaO	65.3 by XRF
MgO	1.16 by XRF

The following results are not UKAS accredited:-

L.S.F.	0.95
C <sub>3</sub> A	5.60
C <sub>3</sub> S	53.37
C <sub>2</sub> S	19.36
C <sub>4</sub> AF	13.10
Free Lime	2.08

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

End of Report

Signed.....

Page 1 of 3

Date 20/04/2021

J.M. Burton

Quality Manager

S. Burton

Technical Manager