

# KIRTON CONCRETE SERVICES LTD

## INDEPENDENT TESTING LABORATORY

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1175

### TEST REPORT

Client :- TITAN CEMENT LTD. HULL  
Report reference :- CHEMISTRY 81  
Ship reference :- "11-20  
Sample :- ORDINARY PORTLAND CEMENT  
Sand :- FRENCH  
Date received :- 10-Nov-20  
Date of tests :- 10-Nov-20 to 08/12/2020

All results are based on sample received from the client

CHEMICAL COMPOSITION:- % by mass, as received

IR	0.35 (BSEN 196-2:2013)
SO <sub>3</sub>	3.27 (BSEN 196-2:2013)
LOI	2.13 (BSEN 196-2:2013)
K <sub>2</sub> O	0.58 (BSEN 196-2:2013)
Na <sub>2</sub> O	0.13 (BSEN 196-2:2013)
Na <sub>2</sub> O(eq)	0.51 (BSEN 196-2:2013)
Chloride	0.07 (BSEN 196-2:2013)

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

SiO <sub>2</sub>	19.35 by XRF
Al <sub>2</sub> O <sub>3</sub>	4.44 by XRF
Fe <sub>2</sub> O <sub>3</sub>	3.21 by XRF
CaO	63.8 by XRF
MgO	2.32 by XRF

The following results are not UKAS accredited:-

L.S.F.	0.00
C <sub>3</sub> A	0.00
C <sub>3</sub> S	0.00
C <sub>2</sub> S	0.00
C <sub>4</sub> AF	0.00
Free Lime	0

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

End of Report

Signed.....

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Date 08/12/2020

J.M. Burton

Quality Manager

S. Burton

Technical Manager