

# KIRTON CONCRETE SERVICES LTD

## INDEPENDENT TESTING LABORATORY

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1175

### TEST REPORT

Client :- TITAN CEMENT LTD. HULL  
Report reference :- CHEMISTRY 47  
Ship reference :- "11-17  
Sample :- ORDINARY PORTLAND CEMENT  
Sand :- FRENCH  
Date received :- 15-Nov-17  
Date of tests :- 15-Nov-17 to 13/12/2017

#### CHEMICAL COMPOSITION:- % by mass, as received

IR	0.47 (BSEN 196-2:2013)
SO <sub>3</sub>	2.58 (BSEN 196-2:2013)
LOI	3.09 (BSEN 196-2:2013)
K <sub>2</sub> O	0.52 (BSEN 196-2:2013)
Na <sub>2</sub> O	0.12 (BSEN 196-2:2013)
Na <sub>2</sub> O(eq)	0.46 (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>	20.56 by XRF
Al <sub>2</sub> O <sub>3</sub>	4.84 by XRF
Fe <sub>2</sub> O <sub>3</sub>	3.83 by XRF
CaO	64.27 by XRF
MgO	1.2 by XRF

The following results are not UKAS accredited:-

L.S.F.	1.27
C <sub>3</sub> A	6.35
C <sub>3</sub> S	54.79
C <sub>2</sub> S	17.63
C <sub>4</sub> AF	11.64
Free Lime	1.27

End of Report

Signed.....

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Date 14/12/2017

J.M. Burton

Quality Manager

S. Burton

Technical Manager