

KIRTON CONCRETE SERVICES LTD

INDEPENDENT TESTING LABORATORY

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1175

TEST REPORT

Client :- TITAN CEMENT LTD. HULL
Report reference :- CHEMISTRY 37
Ship reference :- "1-17"
Sample :- ORDINARY PORTLAND CEMENT
Sand :- FRENCH
Date received :- 10-Jan-17
Date of tests :- 10-Jan-17 to 08/02/2017

CHEMICAL COMPOSITION:- % by mass, as received

IR	0.32 (BSEN 196-2:2013)
SO ₃	2.73 (BSEN 196-2:2013)
LOI	2.05 (BSEN 196-2:2013)
K ₂ O	0.53 (BSEN 196-2:2013)
Na ₂ O	0.11 (BSEN 196-2:2013)
Na ₂ O(eq)	0.46 (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 ₂	20.38 by XRF
Al ₂ O ₃	4.07 by XRF
Fe ₂ O ₃	3.79 by XRF
CaO	64.07 by XRF
MgO	1.01 by XRF

The following results are not UKAS accredited:-

L.S.F.	0.97
C ₃ A	4.38
C ₃ S	61.14
C ₂ S	12.32
C ₄ AF	11.52
Free Lime	1.04

End of Report

Signed.....

Page 1 of 3

Date 08/02/2017

J.M. Burton

Quality Manager

S. Burton

Technical Manager