

KIRTON CONCRETE SERVICES LTD

INDEPENDENT TESTING LABORATORY

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1175

TEST REPORT

Client :- TITAN CEMENT LTD. HULL
Report reference :- CHEMISTRY 34
Ship reference :- "12/6
Sample :- ORDINARY PORTLAND CEMENT
Sand :- FRENCH
Date received :- 13-Sep-16
Date of tests :- 13-Sep-16 to 11/10/2016

CHEMICAL COMPOSITION:- % by mass, as received

IR	0.34 (BSEN 196-2:2013)
SO ₃	2.71 (BSEN 196-2:2013)
LOI	2.15 (BSEN 196-2:2013)
K ₂ O	0.5 (BSEN 196-2:2013)
Na ₂ O	0.11 (BSEN 196-2:2013)
Na ₂ O(eq)	0.44 (BSEN 196-2:2013)
Chloride	0.03 (BSEN 196-2:2013)

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

SiO ₂	20.83 by XRF
Al ₂ O ₃	4.12 by XRF
Fe ₂ O ₃	3.89 by XRF
CaO	64.6 by XRF
MgO	1.06 by XRF

The following results are not UKAS accredited:-

L.S.F.	0.95
C ₃ A	4.34
C ₃ S	58.88
C ₂ S	15.31
C ₄ AF	11.83
Free Lime	1.18

End of Report

Signed.....

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Date 11/10/2016

J.M. Burton

Quality Manager

S. Burton

Technical Manager