

KIRTON CONCRETE SERVICES LTD

INDEPENDENT TESTING LABORATORY

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1175

TEST REPORT

Client :- TITAN CEMENT LTD. HULL
Report reference :- CHEMISTRY 35
Ship reference :- 13-16
Sample :- ORDINARY PORTLAND CEMENT
Sand :- FRENCH
Date received :- 25-Oct-16
Date of tests :- 25-Oct-16 to 22/11/2016

CHEMICAL COMPOSITION:- % by mass, as received

IR	0.42 (BSEN 196-2:2013)
SO ₃	2.69 (BSEN 196-2:2013)
LOI	2.28 (BSEN 196-2:2013)
K ₂ O	0.54 (BSEN 196-2:2013)
Na ₂ O	0.13 (BSEN 196-2:2013)
Na ₂ O(eq)	0.49 (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	20.77 by XRF
Al ₂ O ₃	4.21 by XRF
Fe ₂ O ₃	3.75 by XRF
CaO	64.4 by XRF
MgO	1.05 by XRF

The following results are not UKAS accredited:-

L.S.F.	0.95
C ₃ A	4.82
C ₃ S	59.27
C ₂ S	14.84
C ₄ AF	11.40
Free Lime	0.91

End of Report

Signed.....

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Date 23/11/2016

J.M. Burton Quality Manager

S. Burton Technical Manager