

KIRTON CONCRETE SERVICES LTD

INDEPENDENT TESTING LABORATORY

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1175

TEST REPORT

Client :- TITAN CEMENT LTD. HULL
Report reference :- CHEMISTRY 72
Ship reference :- "2-20
Sample :- ORDINARY PORTLAND CEMENT
Sand :- FRENCH
Date received :- 10-Mar-20
Date of tests :- 10-Mar-20 to 07/04/2020

All results are based on sample received from the client

CHEMICAL COMPOSITION:- % by mass, as received

IR	0.28 (BSEN 196-2:2013)
SO ₃	3.47 (BSEN 196-2:2013)
LOI	2.13 (BSEN 196-2:2013)
K ₂ O	0.59 (BSEN 196-2:2013)
Na ₂ O	0.15 (BSEN 196-2:2013)
Na ₂ O(eq)	0.54 (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 ₂	20.69 by XRF
Al ₂ O ₃	5.11 by XRF
Fe ₂ O ₃	3.54 by XRF
CaO	64.1 by XRF
MgO	2.77 by XRF

The following results are not UKAS accredited:-

L.S.F.	0.93
C ₃ A	7.56
C ₃ S	48.94
C ₂ S	22.41
C ₄ AF	10.76
Free Lime	1.31

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

End of Report

Signed.....

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Date 08/04/2020

J.M. Burton

Quality Manager

S. Burton

Technical Manager