

KIRTON CONCRETE SERVICES LTD

INDEPENDENT TESTING LABORATORY

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1175

CEMENT TEST RESULTS

Client :- TITAN CEMENT LTD., HULL
Report Reference :- TITAN 7009
Week reference :- TITAN 9 2016
Sample :- ORDINARY PORTLAND CEMENT
Sand :- FRENCH
Date of receipt of sample :- 01/03/2016
Date of tests :- 01/03/2016 to 29/03/2016
Date of Report :- 30/03/2016

RESULTS

| | | |
|----------------------|-------------------------|------------------------|
| FINENESS | 3880 cm ² /g | (BS EN196 PART 6:2010) |
| STANDARD CONSISTENCE | 28.0 % | (BS EN196 PART 3:2005) |
| INITIAL SETTING TIME | 185 mins | (EN196 PART 3:2005) |

COMPRESSIVE STRENGTH :- MORTAR PRISMS

| | | |
|------------|----------|-------------------------------------|
| AT 2 DAYS | 30.9 MPa | (EN196 PART 1:2005) |
| | | (Mean of 6 results, none discarded) |
| AT 7 DAYS | 46.7 MPa | (Mean of 6 results, none discarded) |
| AT 28 DAYS | 61.3 MPa | (Mean of 6 results, none discarded) |

CHEMICAL COMPOSITION :- by mass, as received

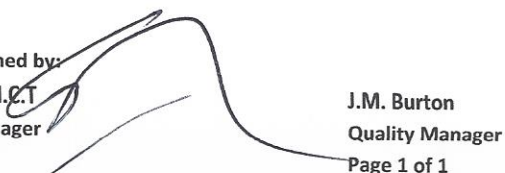
| | | |
|------------------------------------|----------------------|----------------------|
| Chloride | 0.01 % | (EN196 PART2:2013) |
| Average Chloride | 0.02 last 25 Results | |
| Na ₂ O | 0.14 % | (EN196 PART2:2013) |
| K ₂ O | 0.54 % | (EN196 PART2:2013) |
| Na ₂ O (equiv) | 0.50 % | (EN196 PART2:2013) |
| Na ₂ O Average Alkalies | 0.51 last 25 Results | EN197-1:2000 N.B.4.3 |

End of Report

THE ABOVE RESULTS COMPLY WITH THE REQUIREMENTS OF
BS EN 197-1:2011 FOR CEM 1 52.5 N

Signed

Certificate signed by:
S. Burton A.M.I.C.T.
Technical Manager



J.M. Burton
Quality Manager
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30/03/2016