



An independent testing laboratory specialising in the testing of cementitious materials

PREPARED FOR TITAN CEMENT Ltd. HULL	
REPORT REFERENCE	Titan 121
CLIENT REFERENCE	CHEMISTRY 2023
SHIP REFERENCE	"9-23
SAMPLE	ORDINARY PORTLAND CEMENT
DATE OF RECEIPT OF SAMPLE	26-Sep-23
DATE OF TESTS	26-Sep-23 to 24-Oct-23
DATE OF REPORT	24-Oct-23

ALL RESULTS ARE BASED ON SAMPLE RECEIVED FROM THE CLIENT: TESTED AS RECEIVED.

CHEMICAL COMPOSITION :- by mass, as received

IR	0.57 %	(BSEN 196-6:2010)
SO <sup>3</sup>	2.86 %	(BSEN 196-3:2016)
LOI	2.69 %	(BSEN 196-3:2016)
K <sub>2</sub> O	0.53 %	(BSEN 196-3:2016)
Na <sub>2</sub> O	0.19 %	(BSEN 196-3:2016)
Na <sub>2</sub> O (eq)	0.54 %	(BSEN 196-3:2016)
Chloride	0.01 %	(BSEN 196-3:2016)

The following results are not covered by the laboratory's UKAS Schedule and were determined by xrf.

SiO <sub>2</sub>	20.41 MPa	By XRF
Al <sub>2</sub> O <sub>3</sub>	4.02 MPa	By XRF
Fe <sub>2</sub> O <sub>3</sub>	3.89 MPa	By XRF
CaO	63.4 MPa	By XRF
MgO	1.43 MPa	By XRF

The following results are not UKAS accredited:-

L.S.F.	0.95 %
C <sub>3</sub> A	%
C <sub>3</sub> S	%
C <sub>2</sub> S	%
C <sub>4</sub> AF	%
Free Lime	0.00 %

END OF REPORT

SIGNED:

Certificate signed by:

✓ S. Burton A.M.I.C.T  
Technical Manager

J.M. Burton

Quality Manager