

An independent testing laboratory specialising in the testing of cementitious materials

## PREPARED FOR TITAN CEMENT Ltd. HULL

REPORT REFERENCE	Titan	127
CLIENT REFERENCE	CHEMISTRY	2024
SHIP REFERENCE	"2-24	
SAMPLE	ORDINARY PORTLAND CEMENT	
DATE OF RECEIPT OF SAMPLE	24-Apr-24	
DATE OF TESTS	24-Apr-24	to 22-May-24
DATE OF REPORT	23-May-24	

ALL RESULTS ARE BASED ON SAMPLE RECEIVED FROM THE CLIENT: TESTED AS RECEIVED.  
CHEMICAL COMPOSITION :- by mass, as received

IR	0.14 %	(BSEN 196-6:2010)
SO <sup>3</sup>	3.02 %	(BSEN 196-3:2016)
LOI	2.86 %	(BSEN 196-3:2016)
K <sub>2</sub> O	0.47 %	(BSEN 196-3:2016)
Na <sub>2</sub> O	0.24 %	(BSEN 196-3:2016)
Na <sub>2</sub> O (eq)	0.55 %	(BSEN 196-3:2016)
Chloride	0.03 %	(BSEN 196-3:2016)

The following results are determined by XRF by an outside accredited laboratory.

SiO <sub>2</sub>	20.35	By XRF
Al <sub>2</sub> O <sub>3</sub>	3.91	By XRF
Fe <sub>2</sub> O <sub>3</sub>	4.14	By XRF
CaO	63.0	By XRF
MgO	3.03	By XRF

The following results are not UKAS accredited:-

L.S.F.	0.95 %
C <sub>3</sub> A	3.36 %
C <sub>3</sub> S	55.90 %
C <sub>2</sub> S	16.18 %
C <sub>4</sub> AF	12.59 %
Free Lime	1.28 %

END OF REPORT

SIGNED:



Certificate signed by:

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

J.M. Burton  
Quality Manager