

An independent testing laboratory specialising in the testing of cementitious materials

## PREPARED FOR TITAN CEMENT Ltd. HULL

REPORT REFERENCE	Titan	139
CLIENT REFERENCE	CHEMISTRY	2025
SHIP REFERENCE	"3-25	
SAMPLE	ORDINARY PORTLAND CEMENT	
DATE OF RECEIPT OF SAMPLE	8-Apr-25	
DATE OF TESTS	8-Apr-25	to 6-May-25
DATE OF REPORT	12-May-25	

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

### CHEMICAL COMPOSITION :- by mass, as received

IR	0.37 %	(BSEN 196-6:2010 )
SO <sup>3</sup>	3.04 %	(BSEN 196-3:2016)
LOI	4.17 %	(BSEN 196-3:2016)
K <sub>2</sub> O	0.54 %	(BSEN 196-3:2016)
Na <sub>2</sub> O	0.28 %	(BSEN 196-3:2016)
Na <sub>2</sub> O (eq)	0.64 %	(BSEN 196-3:2016)
Chloride	0.06 %	(BSEN 196-3:2016)

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

SiO <sub>2</sub>	20.88	By XRF
Al <sub>2</sub> O <sub>3</sub>	4.47	By XRF
Fe <sub>2</sub> O <sub>3</sub>	4.14	By XRF
CaO	64.2	By XRF
MgO	3.71	By XRF

The following results are not UKAS accredited:-

L.S.F.	0.93 %
C <sub>3</sub> A	4.85 %
C <sub>3</sub> S	50.38 %
C <sub>2</sub> S	21.87 %
C <sub>4</sub> AF	12.59 %
Free Lime	1.90 %

## END OF REPORT

SIGNED:



Certificate signed by:

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

J.M. Burton  
Quality Manager