

An independent testing laboratory specialising in the testing of cementitious materials

## PREPARED FOR TITAN CEMENT Ltd. HULL

REPORT REFERENCE	Titan	135
CLIENT REFERENCE	CHEMISTRY	2024
SHIP REFERENCE	"11-24	
SAMPLE	ORDINARY PORTLAND CEMENT	
DATE OF RECEIPT OF SAMPLE	6-Jan-25	
DATE OF TESTS	6-Jan-25	to 3-Feb-25
DATE OF REPORT	3-Feb-25	

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

IR	0.63 %	(BSEN 196-6:2010)
SO <sup>3</sup>	2.98 %	(BSEN 196-3:2016)
LOI	3.01 %	(BSEN 196-3:2016)
K <sub>2</sub> O	0.46 %	(BSEN 196-3:2016)
Na <sub>2</sub> O	0.27 %	(BSEN 196-3:2016)
Na <sub>2</sub> O (eq)	0.57 %	(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>	20.53	By XRF
Al <sub>2</sub> O <sub>3</sub>	3.97	By XRF
Fe <sub>2</sub> O <sub>3</sub>	4.12	By XRF
CaO	63.8	By XRF
MgO	2.76	By XRF

The following results are not UKAS accredited:-

L.S.F.	0.95 %
C <sub>3</sub> A	3.56 %
C <sub>3</sub> S	54.52 %
C <sub>2</sub> S	17.74 %
C <sub>4</sub> AF	12.52 %
Free Lime	1.97 %

END OF REPORT

SIGNED:



Certificate signed by:

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

J.M. Burton

Quality Manager