



An independent testing laboratory specialising in the testing of cementitious materials

PREPARED FOR TITAN CEMENT Ltd. HULL	
REPORT REFERENCE	Titan 134
CLIENT REFERENCE	CHEMISTRY 2024
SHIP REFERENCE	"10-24
SAMPLE	ORDINARY PORTLAND CEMENT
DATE OF RECEIPT OF SAMPLE	3-Dec-24
DATE OF TESTS	9-Dec-24 to 6-Jan-25
DATE OF REPORT	17-Jan-25

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

CHEMICAL COMPOSITION :- by mass, as received

IR	0.61 %	(BSEN 196-6:2010)
SO <sup>3</sup>	2.88 %	(BSEN 196-3:2016)
LOI	3.10 %	(BSEN 196-3:2016)
K <sub>2</sub> O	0.47 %	(BSEN 196-3:2016)
Na <sub>2</sub> O	0.25 %	(BSEN 196-3:2016)
Na <sub>2</sub> O (eq)	0.56 %	(BSEN 196-3:2016)
Chloride	0.05 %	(BSEN 196-3:2016)

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

SiO <sub>2</sub>	20.48	By XRF
Al <sub>2</sub> O <sub>3</sub>	3.91	By XRF
Fe <sub>2</sub> O <sub>3</sub>	4.03	By XRF
CaO	63.9	By XRF
MgO	2.60	By XRF

The following results are not UKAS accredited:-

L.S.F.	0.96 %
C <sub>3</sub> A	3.55 %
C <sub>3</sub> S	57.67 %
C <sub>2</sub> S	15.22 %
C <sub>4</sub> AF	12.25 %
Free Lime	1.62 %

END OF REPORT

SIGNED:

Certificate signed by:

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

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Quality Manager