

An independent testing laboratory specialising in the testing of cementitious materials

## PREPARED FOR TITAN CEMENT Ltd. HULL

REPORT REFERENCE	Titan	131
CLIENT REFERENCE	CHEMISTRY	2024
SHIP REFERENCE	"7-24	
SAMPLE	ORDINARY PORTLAND CEMENT	
DATE OF RECEIPT OF SAMPLE	10-Sep-24	
DATE OF TESTS	11-Sep-24	to 9-Oct-24
DATE OF REPORT	10-Oct-24	

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

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

IR	0.32 %	(BSEN 196-6:2010)
SO <sup>3</sup>	2.72 %	(BSEN 196-3:2016)
LOI	2.98 %	(BSEN 196-3:2016)
K <sub>2</sub> O	0.53 %	(BSEN 196-3:2016)
Na <sub>2</sub> O	0.27 %	(BSEN 196-3:2016)
Na <sub>2</sub> O (eq)	0.62 %	(BSEN 196-3:2016)
Chloride	0.02 %	(BSEN 196-3:2016)

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

SiO <sub>2</sub>	20.71	By XRF
Al <sub>2</sub> O <sub>3</sub>	4.09	By XRF
Fe <sub>2</sub> O <sub>3</sub>	4.11	By XRF
CaO	64.1	By XRF
MgO	2.73	By XRF

The following results are not UKAS accredited:-

L.S.F.	0.95 %
C <sub>3</sub> A	3.89 %
C <sub>3</sub> S	54.81 %
C <sub>2</sub> S	18.04 %
C <sub>4</sub> AF	12.49 %
Free Lime	1.90 %

## END OF REPORT

SIGNED:



Certificate signed by:

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Technical Manager

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