

An independent testing laboratory specialising in the testing of cementitious materials

## PREPARED FOR TITAN CEMENT Ltd. HULL

REPORT REFERENCE	Titan	145
CLIENT REFERENCE	CHEMISTRY	2025
SHIP REFERENCE	"9-25	
SAMPLE	ORDINARY PORTLAND CEMENT	
DATE OF RECEIPT OF SAMPLE	28-Oct-25	
DATE OF TESTS	28-Oct-25	to 25-Nov-25
DATE OF REPORT	25-Nov-25	

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

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

IR	0.23 %	(BSEN 196-6:2010 )
SO <sup>3</sup>	3.13 %	(BSEN 196-3:2016)
LOI	2.28 %	(BSEN 196-3:2016)
K <sub>2</sub> O	0.52 %	(BSEN 196-3:2016)
Na <sub>2</sub> O	0.23 %	(BSEN 196-3:2016)
Na <sub>2</sub> O (eq)	0.57 %	(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>	19.95	By XRF
Al <sub>2</sub> O <sub>3</sub>	4.34	By XRF
Fe <sub>2</sub> O <sub>3</sub>	4.31	By XRF
CaO	64.3	By XRF
MgO	2.40	By XRF

The following results are not UKAS accredited:-

L.S.F.	0.97 %
C <sub>3</sub> A	4.22 %
C <sub>3</sub> S	58.67 %
C <sub>2</sub> S	12.94 %
C <sub>4</sub> AF	13.10 %
Free Lime	1.80 %

## END OF REPORT

SIGNED:



Certificate signed by:

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Technical Manager

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