

## PREPARED FOR TITAN CEMENT Ltd. HULL

REPORT REFERENCE	Titan	106
CLIENT REFERENCE	CHEMISTRY	2022
SHIP REFERENCE	"9-22"	
SAMPLE	ORDINARY PORTLAND CEMENT	
DATE OF RECEIPT OF SAMPLE	9-Aug-22	
DATE OF TESTS	9-Aug-22	to 6-Sep-22
DATE OF REPORT	6-Sep-22	

### ALL RESULTS RELATE ONLY TO SAMPLE TESTED CHEMICAL COMPOSITION :- by mass, as received

IR	0.32 %	(BSEN 196-6:2010)
SO <sup>3</sup>	2.94 %	(BSEN 196-3:2016)
LOI	2.32 %	(BSEN 196-3:2016)
K <sub>2</sub> O	0.54 %	(BSEN 196-3:2016)
Na <sub>2</sub> O	0.19 %	(BSEN 196-3:2016)
Na <sub>2</sub> O (eq)	0.55 %	(BSEN 196-3:2016)
Chloride	0.02 %	(BSEN 196-3:2016)

### The following results are not covered by the laboratory's UKAS Schedule and were determined by xrf.

SiO <sub>2</sub>	18.69 MPa	By XRF
Al <sub>2</sub> O <sub>3</sub>	3.88 MPa	By XRF
Fe <sub>2</sub> O <sub>3</sub>	4.15 MPa	By XRF
CaO	63.6 MPa	By XRF
MgO	0.88 MPa	By XRF

### The following results are not UKAS accredited:-

L.S.F.	1.03 %
C <sub>3</sub> A	3.27 %
C <sub>3</sub> S	68.81 %
C <sub>2</sub> S	1.68 %
C <sub>4</sub> AF	12.62 %
Free Lime	1.88 %

END OF REPORT

SIGNED:



Certificate signed by:

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