

An independent testing laboratory specialising in the testing of cementitious materials

1175

## PREPARED FOR TITAN CEMENT Ltd. HULL

REPORT REFERENCE	Titan	101
CLIENT REFERENCE	CHEMISTRY	2022
SHIP REFERENCE	"5-22"	
SAMPLE	ORDINARY PORTLAND CEMENT	
DATE OF RECEIPT OF SAMPLE	26-Apr-22	
DATE OF TESTS	27-Apr-22	to 25-May-22
DATE OF REPORT	6-Jun-22	

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

IR	0.35 %	(BSEN 196-6:2010)
SO <sup>3</sup>	3.02 %	(BSEN 196-3:2016)
LOI	2.48 %	(BSEN 196-3:2016)
K <sub>2</sub> O	0.57 %	(BSEN 196-3:2016)
Na <sub>2</sub> O	0.16 %	(BSEN 196-3:2016)
Na <sub>2</sub> O (eq)	0.54 %	(BSEN 196-3:2016)
Chloride	0.01 %	(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>	20.09 MPa	By XRF
Al <sub>2</sub> O <sub>3</sub>	4.58 MPa	By XRF
Fe <sub>2</sub> O <sub>3</sub>	4.21 MPa	By XRF
CaO	63.6 MPa	By XRF
MgO	0.98 MPa	By XRF

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

L.S.F.	0.95 %
C <sub>3</sub> A	5.02 %
C <sub>3</sub> S	54.01 %
C <sub>2</sub> S	16.86 %
C <sub>4</sub> AF	12.80 %
Free Lime	1.66 %

## END OF REPORT

SIGNED:



Certificate signed by:

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

J.M. Burton  
Quality Manager