



# Cement Mill Test Report

## White Type I Cement

<b>Month of Issue:</b>	<b>September 2022</b>
<b>Product:</b>	<b>White Portland Cement Type I (CMT58)</b>
<b>Source:</b>	<b>SOTACIB - Tunisia</b>
<b>Silos:</b>	<b>21 &amp; 24</b>
<b>Received:</b>	<b>July 2022</b>

### ASTM C150 and AASHTO M85 Standard Requirements

CHEMICAL ANALYSIS			PHYSICAL ANALYSIS			
Item	Spec limit	Test Result	Item	Spec limit	Test Result	
<b>Rapid Method, X-Ray (C114)</b>			<b>Air content of mortar (%) (C185)</b>			
SiO2 (%)	---	21.8		12 max	6	
Al2O3 (%)	---	3.9	<b>Blaine Fineness (m<sup>2</sup>/kg) (C204)</b>			
Fe2O3 (%)	---	0.2		260 - 430	398	
CaO (%)	---	68.6	<b>-325 (%) (C430)</b>			
MgO (%)	6.0 max	0.3		---	96.3	
SO3 (%)*	3.5 max	2.8	<b>Compressive strength (C109)</b>			
Loss on ignition (%)	3.5 max	2.2			<u>MPa</u>	<u>PSI</u>
Insoluble residue (%)	1.5 max	0.16	1 day	---	22.1	3200
NaEq (%)**	---	0.37	3 day	12.0 [1740] min	33.2	4820
CO2 (%)	---	1.5	7 days	19.0 [2760] min	39.2	5690
Limestone (%)	5.0 max	3.5	28 days	---	46.7	6780
CaCO3 in Limestone (%)	70 min	99	<b>Time of setting (minutes)</b>			
<b>Adjusted Potential Phase Composition (C150)</b>			<b>Vicat Initial (C191)</b>			
C3S (%)	---	71		45 - 375	87	
C2S (%)	---	9	<b>Color</b>		L	91.5
C3A (%)	---	10		A	-0.8	
C4AF (%)	---	1		B	5.3	
<b>ASTM C150 and AASHTO M85 Optional Chemical Requirements:</b>			<b>ASTM C150 and AASHTO M85 Optional Physical Requirements:</b>			
Chloride (%)		0.0039	<b>False set (%) (C-451)</b>		50 min	83
			<b>Specific Gravity (g/cm3)</b>			3.09

\* May exceed 3.5% SO3 maximum based on our C1038 results of < 0.020% expansion at 14 days.  
 \*\* Please refer to ASTM C1778 or AASHTO R 80 for guidance on reducing the risk of alkali-aggregate reaction in concrete.  
 \*\*\* Reflects previous month's data

We certify that the cement described here, at the time of shipment, meets chemical and physical requirements of the current AASHTO M85 and ASTM C150 specifications for Type I Cement.

**Argos USA LLC - Tampa Plant**  
 2001 Maritime Blvd  
 Tampa, FL 33605  
 (813) 247-4831

**Certified By:**

Quality Coordinator

Report created: 9/16/22