



# Central Plains Cement Company

## Type IS(25) Mill Test Report

Month of Issue: Jan-22

Plant: Sugar Creek Plant  
 Product: Type IS(25)  
 Shipped: Dec-21  
 Manufactured: Jun-21

The current version of ASTM C 595 and AASHTO M 240 Standard Requirements

CHEMICAL ANALYSIS			PHYSICAL ANALYSIS		
Item	Spec limit	Test Result	Item	Spec limit	Test Result
Rapid Method, X-Ray (C 114)			Air content of mortar (%) (C 185)	12 max	8
SiO <sub>2</sub> (%)	---	24.3	Blaine Fineness (m <sup>2</sup> /kg) (C 204)	---	382
Al <sub>2</sub> O <sub>3</sub> (%)	---	5.5	Fineness, Residue retained on a 45 µm sieve (%)	---	2.7
Fe <sub>2</sub> O <sub>3</sub> (%)	---	2.5	Autoclave expansion (%) (C 151)	0.80 max - 0.20 min	0.01
CaO (%)	---	57.6	Compressive strength (PSI) (C 109)		
MgO (%)	---	3.5	3 days	1890 min	3310
Sulfur as SO <sub>3</sub> (%)	3.0 max*	3.0	7 days	2900 min	4700
Sulfur as Sulfide(%)	2.0 max	0.17	28 days	3620 min	6870
Loss on ignition (%)***	3.0 max	2.7	Time of setting (minutes)		
Insoluble residue (%)	1.0 max	0.38	Vicat Initial (C 191)	45 - 420	123
Total Alkalis	---	0.52	Mortar Bar Expansion (%) (C 1038)*	0.020 max	0.008
			Specific Gravity (C188)	---	3.08

\* May exceed 3.0% SO<sub>3</sub> maximum based on our C 1038 results of <0.02% expansion at 14 days.

\*\* Corrected for loss in S<sup>2</sup> at 950°C for 15 min

We certify that the above described cement meets the chemical and physical requirements for the current version of ASTM C 595 & AASHTO M 240 STANDARD.

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Certified By:

Paul Engel - Quality Coordinator

1/10/2022