



Central Plains Cement Company

Type IL (12) Mill Test Report

Month of Issue: Jan-22

Plant: Sugar Creek Plant
 Product: Type IL (12)
 Manufactured: Dec-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	7
SiO ₂ (%)	---	19.2	Blaine Fineness (m ² /kg) (C 204)	---	414
Al ₂ O ₃ (%)	---	4.4	Fineness, Residue retained on a 45 um sieve (%)	---	2.9
Fe ₂ O ₃ (%)	---	2.8	Autoclave expansion (%) (C 151)	0.80 max -0.20 min	0.03
CaO (%)	---	62.7	Compressive strength (PSI) (C 109)		
MgO (%)	---	1.0	3 days	1890 min	4010
Sulfur as SO ₃ (%)	3.0 max*	2.8	7 days	2900 min	4960
Loss on ignition (%)	10.0 max	5.70	28 days (Reflects previous month's data)	3620 min	6280
CaCO ₃ in Limestone (%)	70 min	93	Time of setting (minutes)		
Total Alkalis	---	0.54	Vicat Initial (C191)	45 - 420	103
			Mortar Bar Expansion (%) (C 1038)*	.02 max	0.01
			Specific Gravity (C188)	---	3.1

* May exceed 3.0% SO₃ maximum based on our C 1038 results of <0.02% expansion at 14 days.

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

Sugar Creek Plant
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 816-257-3604

Certified By:


 Paul Engel - Quality Coordinator

1/10/2022