



Central Plains Cement Company

Type IP (25) Mill Test Report

Month of Issue: Jun-17

Plant: Omaha Terminal
 Product: Type IP (25)
 Manufactured: Apr-17

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
<i>Rapid Method, X-Ray (C 114)</i>			<i>Air content of mortar (%) (C 185)</i>		
SiO ₂ (%)		26.4		12 max	8
Al ₂ O ₃ (%)		9.06	<i>Blaine Fineness (m²/kg) (C 204)</i>		
Fe ₂ O ₃ (%)		7.95		---	324
CaO (%)		49.38	<i>Fineness, Residue retained on a 45 um sieve (%)</i>		
MgO (%)	6.0 max	1.1		---	9.8
Sulphate as SO ₃ (%)	4.0 max	2.5	<i>Autoclave expansion (%) (C 151)</i>		
Loss on ignition (%)	5.0 max	2.3		0.80 max	-0.01
Total Alkalis	---	0.90		-0.20 min	
			<i>Compressive strength (PSI) (C 109)</i>		
			1 days		1570
			3 days	1890 min	2600
			7 days	2900 min	3500
			28 days (Reflects previous period data)	3620 min	5150
			<i>Time of setting (minutes)</i>		
			<i>Vicat Initial (C 191)</i>		
				45 - 420	130
			<i>Specific Gravity (C188)</i>		
				---	3.04

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.

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 816-257-3604

Certified By:

Paul Engel - Quality Coordinator

6/6/2017