



# Central Plains Cement Company

## Type IP (25) Mill Test Report

Month of Issue: Sep-17

Plant: Omaha Terminal  
 Product: Type IP (25)  
 Manufactured: Jun-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>			Air content of mortar (%) (C 185)	12 max	8
SiO <sub>2</sub> (%)		27	Blaine Fineness (m <sup>2</sup> /kg) (C 204)	---	347
Al <sub>2</sub> O <sub>3</sub> (%)		9.3	Fineness, Residue retained on a 45 um sieve (%)	---	9.1
Fe <sub>2</sub> O <sub>3</sub> (%)		7.8	Autoclave expansion (%) (C 151)	0.80 max -0.20 min	-0.03
CaO (%)		48.5	Compressive strength (PSI) (C 109)		
MgO (%)	6.0 max	1.1	1 days		1670
Sulphate as SO <sub>3</sub> (%)	4.0 max	2.6	3 days	1890 min	2810
			7 days	2900 min	3710
Loss on ignition (%)	5.0 max	2.3	28 days (Reflects previous period data)	3620 min	5370
Total Alkalis	---	0.90	Time of setting (minutes)		
			Vicat Initial (C 191)	45 - 420	130
			Specific Gravity (C188)	---	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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Certified By:

Paul Engel - Quality Coordinator

9/15/2017