



Central Plains Cement Company



Certified to NSF/ANSI 61

Type IS (30) Mill Test Report

Month of Issue: Jul-13

Plant: Sugar Creek Plant
 Product: Type IS (30), GU
 Shipped: Jun-13
 Manufactured: Apr-13

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	9
SiO ₂ (%)	---	24.0	Blaine Fineness (m ² /kg) (C 204)	---	417
Al ₂ O ₃ (%)	---	6.2	-325 (%) (C 430)	---	97.6
Fe ₂ O ₃ (%)	---	2.5	Mortar Bar Expansion (%) (C 1038)	0.020 max	0.004
CaO (%)	---	57.7	Autoclave expansion (%) (C 151)	0.80 max	0.00
MgO (%)	---	3.7	Compressive strength (MPa, PSI) (C 109)		
Sulphate as SO ₃ (%)	3.0 max	2.1	1 days	---	12.6 [1830]
Sulfide Sulfur (S) (%)	2.0 max	0.3	3 days	13.0 (1890) min	23.4 [3400]
Loss on ignition (%)	3.0 max	2.4	7 days	20.0 (2900) min	33.0 [4790]
Insoluble residue (%)	1.0 max	0.21	28 days (Reflects previous month's data)	25.0 (3620) min	52.3 [7590]
Total Alkalis	---	0.53	Time of setting (minutes)		
			Vicat Initial (C 191)	45 - 420	135
			Specific Gravity (C188)	---	3.09

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:


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7/10/2013