Materials Testing & Research Facility
2650 Old State Hwy 113
Taylorsville, GA 30178
770-684-0102

ASTM C618 / AASHTO M295 Testing of Coal Creek Station Fly Ash

Sample Date: 4/16 - 4/20/18 **Report Date:** 6/8/2018

Sample Type: composite **MTRF ID:** 1106CC

Sample ID:

Chemical Analysis	Results		ASTM Limit Class F/C	AASHTO Limit Class F/C
Silicon Dioxide (SiO2)	48.99	%		
Aluminum Oxide (Al2O3)	16.09	%		
Iron Oxide (Fe2O3)	6.32	%		
Sum (SiO2+Al2O3+Fe2O3)	71.40	%	70.0/50.0 min	70.0/50.0 min
Sulfur Trioxide (SO3)	0.87	%	5.0 max	5.0 max
Calcium Oxide (CaO)	14.34	%		
Magnesium Oxide (MgO)	4.45	%		
Sodium Oxide (Na2O)	4.15	%		
Potassium Oxide (K2O)	2.33	%		
Sodium Oxide Equivalent (Na2O+0.658K2O)	5.68	%		
Moisture	0.03	%	3.0 max	3.0 max
Loss on Ignition	0.18	%	6.0 max	5.0 max
Available Alkalies, as Na2Oe	2.24	%	Not Required	1.5 max*
				*when required by purchaser
Physical Analysis				
Fineness, % retained on 45-µm sieve	20.58	%	34 max	34 max
Fineness Uniformity	0.42	%	±5 max	±5 max
Strength Activity Index - 7 or 28 day requirement				
7 day, % of control	95	%	75 min	75 min
28 day, % of control	96	%	75 min	75 min
Water Requirement, % control	94	%	105 max	105 max
Autoclave Soundness	0.04	%	0.8 max	0.8 max
Density	2.51			
Density Uniformity	1.55	%	±5 max	±5 max

Boral Resources certifies that pursuant to current ASTM C618 protocol for testing, the test data listed herein was generated by applicable ASTM methods and meets the requirements of ASTM C618.

Doug Rhodes, CET
Facility Manager

AASHTO ACCREDITED