



Class C Fly Ash

SOURCE: Silver Bay Fly Ash

CONFORMANCE: Silver Bay fly ash meets the requirements listed below, as per ASTM C618-08 for a Class C fly ash

TEST METHOD ASTM: C311-07 **ASTM: C618-08 Standard Chemical Requirements**

CHEMICAL COMPOSITION	CHEMICAL COMPOSITION	<u>CLASS F</u>	<u>CLASS C</u>	<u>CLASS N</u>
Silicon dioxide (SiO ₂)	38.2	-	-	-
Aluminum oxide (Al ₂ O ₃)	17.9	-	-	-
Ferric oxide (Fe ₂ O ₃), %	6.7	-	-	-
Total (SiO ₂ +Al ₂ O ₃ +Fe ₂ O ₃), min, %	62.8	70	50	70
Calcium oxide (CaO), %	23.6	-	-	-
Magnesium oxide (MgO), %	5.5	-	-	-
Sulfur trioxide (SO ₃)	1.1	5.0	5.0	4.0
Alkalies as Na ₂ O	2.1	-	-	-
Moisture content, max, %	.08	3.0	3.0	3.0
Loss on ignition, max, %	.39	6.0	6.0	10.0

TEST METHOD ASTM: C311-07 **ASTM C618-08 Standard Physical Requirements**

PHYSICAL COMPOSITION		<u>CLASS F</u>	<u>CLASS C</u>	<u>CLASS N</u>
Fineness: Retained on No. 325 sieve, max, %	13.7	34	34	34
Density, g/cm ³	2.6	-	-	-
Autoclave expansion/contraction, max, %	0.02	±0.8	±0.8	±0.8
Strength Activity Index				
7 day, % of control	87	75 min.	75 min.	
28 day, % of control	93	75 min.	75 min.	
Water Requirement, max, % of control	96.2	105	105	115