DELAWARE DEPARTMENT OF TRANSPORTATION
MATERIALS AND RESEARCH LABORATORY
BOX 778 800 BAY ROAD DOVER, DE 19903
302-760-2400

SILICA FUME REPORT

Lab No.		Contract No.	
Sampled By	Silo	Section	801 & 812
Sampled At		Date Sampled	
Manufacturer	Tanker	Date Received	
Class	SF	Quantity (tons)	

Physical Tests

Density		Strength Activity Index - % of Control	
Density (Variation)	5.0% Max.Var. of Last 10 Ave.	Silica Fume % with Control	
Fineness – 825 Sieve		S.F. – Mix Strength % 7-Day	
Fineness – Sq M/Kg	600 Max	Strength% 7-Day of control	100% Min. of control
----------control cement----------		S.F. – Mix strength% 28-Day	
Control cement		Strength% 28-Day of control	100% Min. of control
7-Day Strength		Water Requirement	Percent of control
28-Day Strength	5000 psi Min.		

Chemical Tests (wt. %)

Silicon Dioxide	85.0% Min	Sodium Oxide		Moisture	3.0% Max.
Aluminum Oxide		Potassium Oxide		Loss on Ignition	6.0% Max.
Ferric Oxide		Maganic Oxide		Sulfur Trioxide	3.0% Max.
Sum: Si + AL + Fe		Phosphorous Pentoxide		Barium Oxide	
Calcium Oxide		Titanium Dioxide		Total Alkalies	1.5% Max
Magnesium Oxide		Strontiun Oxide			

Remarks:

This sample does conform with AASHTO M-307 and therefore is acceptable for use.

Testing Technician:

Physical Tests _____ Date _____

Chemical Tests_____ Date_____

Lab Supervisor_____ Date_____

Lab Manager_____ Date_____

LB-80 (03-20-03)