

Certificate of Analysis

Silica fume (white)

ASTM C1240-10a Standard Requirements	Limits	Results¹
Acc. Pozzolanic strength Activity index 7 d (%)	>105	132
Specific surface (m ² /g)	>15	29
Density (g/cm ³)	---	2,31
Oversized retained on 45 µm (%)	<10	0,1
Loss on ignition, LOI (%)	<6,0	0,6
Moisture (%)	<3,0	0,6
Silicon dioxide, SiO ₂ (%)	>85	97.7
CSA A3001-08 Standard Requirements	Limits	Results¹
Autoclave expansion (%)	<0,2	-0,07
Finesse, retained on 45 µm (%)	<10	0,1
Tendency to entrap air	No visible foam	No visible foam
Loss on ignition, LOI (%)	<10	0,9
Sulphur trioxide, SO ₃ (%)	<1,0	0,08
Silicon dioxide, SiO ₂ (%)	>85	97,9
Physical and Chemical Analysis	Results¹	
Bulk density, undensified (kg/m ³)	272	
Bulk density, densified (kg/m ³)	-	
Carbon free, C (%)	0,2	
Chloride, Cl ⁻ (%)	-	
Moisture (%)	0,9	
pH	7,1	
Aluminium oxide, Al ₂ O ₃ (%)	0,16	
Calcium oxide, CaO (%)	0,33	
Ferric Oxide, Fe ₂ O ₃ (%)	0,06	
Magnesium oxide, MgO (%)	0,12	
Phosphorous pentoxide, P ₂ O ₅ (%)	-	
Potassium oxide, K ₂ O (%)	0,14	
Sodium oxide, Na ₂ O (%)	0,10	

1: Typical results (2012)