



2023 COA Typical Analysis Silica Fume-Ferrosilicon Metal

ASTM C1240-20 Standard Requirements	Limits	Results ¹
Accelerated Pozzolanic Activity index (%)	>105	-
BET Specific Surface Area (m ² /g)	>15	-
Density (specific gravity) (g/cm ³)	-	-
Retained on 325 Sieve (+45µm)	<10	2.13
Loss on Ignition, LOI (%)	<6.0	-
Moisture (%)	<3.0	-
Silicon Dioxide, SiO ₂ (%)	>85	86 - 89
CSA A3001-18 Standard Requirements	Limits	Results ¹
Finesse, Retained on 45µm (%)	<10	2.13
Tendency to Entrap Air	No visible foam	No visible foam
Loss on Ignition, LOI (%)	<10	2.62
Sulphur trioxide, SO ₃ (%)	<1.0	0.77
Silicon Dioxide, SiO ₂ (%)	>85	86 - 89
Physical and Chemical Analysis	Results ¹	
Bulk Density, Densified (kg/m ₃)	650-750 (range)	
Moisture (%)	0.32	
pH	7.03	
Potassium oxide, K ₂ O (%)	1.30	
Sodium oxide, Na ₂ O (%)	0.69	

1: Typical results (2023)



The Silica Fume meets the requirements for Silica Fume used in Cementitious Mixtures of ASTM C1240-20, for Cementing Materials, and Blended Supplementary Cementing Materials of CSA – A3001-18 for type SF.

Elkon Products Alberta Inc

