



Certificate of Analysis
Silica fume, DSF96

Date/period tested	October 2020	
Standard/tests	CSA A3001-13	
Grade	Grade DSF96	
CSA A3001 tests	Result*	Limit
Silicon dioxide, SiO ₂ (%)	96.4	>85%
Sulphur Trioxide, SO ₃ (%)	<0.01	<1%
Oversized retained on 45 µm (%)	0.4	<10 %
Soundness, autoclave expansion (%)	0.05	<0.2 %
Loss on ignition, LOI (%)	0.59	<10 %
Moisture (%)	0.20	<3 %
Tendency to entrap air	No Foam	Observed
Accelerated pozzolanic activity strength index	133	>105%
Control of Alkali Silica Reactivity mortar 14days (%)	----	<0.1%
Chemical tests		
Aluminium oxide, Al ₂ O ₃ (%)	0.78	----
Calcium oxide, CaO (%)	<0.01	----
Iron Oxide, Fe ₂ O ₃ (%)	0.09	----
Magnesium oxide, MgO (%)	0.27	----
Phosphorous pentoxide, P ₂ O ₅ (%)	0.10	----
Potassium oxide, K ₂ O (%)	0.62	----
Sodium oxide, Na ₂ O (%)	0.21	----
Chloride, Cl ⁻ (%)	0.01	----
Physical & Misc. tests		
Bulk density, densified (kg/m ³)	707	>650
Specific gravity/density (g/cm ³)	2.33	----

*Tests performed by Amec, Calgary AB

Manufactured for and distributed exclusively by:



Excellens Products Inc.

© Silicem® January 2017 All Rights Reserved

www.excellensproducts.com
1-604-949-1660