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Test Certificate for Silica Fume: Microsilica SF

Test Report No.: 21#86

Sampling location *GBC Mount Maunganui Service Centre, NZ*
Sample date *30/03/21*
Origin of Silica Fume *Qinghai Province, China.*
Physical form *Fine Grey Powder*
Grade *Densified*

Sample Batch identification: **3192B 10kg Bag**

Property	Result	Test Method	AS/NZS 3582.3 Requirements	Testing Authority
Moisture %	0.8	AS 3583.2	3.0 max	GBC Portland
Loss on Ignition %	1.7	AS 3583.3	6.0 max	GBC Portland
SO ₃ %	0.4	AS 3583.8	3.0 max	Cement Australia
SiO ₂ %	93.9	XRF	> 85	SpectraChem Analytical Ltd
Total Alkali Content (Na ₂ O equiv.) %	1.36	XRF	-	SpectraChem Analytical Ltd
Chloride Ion %	0.091	AS 3583.13	-	Cement Australia
Surface Area BET m ² /g	16.6	BET ASTM C1069	-	Auckland University
Strength Index %	108	ASTM C1240	-	Cement Australia

Note: The above samples were tested as received in accordance with methods stated in the AS/NZS 3582.3.

Note: Auckland University is not IANZ Accredited for the BET Surface Area test.

Date: 4/05/2021

Raki Harding
Technical Manager
Golden Bay Cement

