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Test Certificate for Silica Fume: Microsilica SF

Test Report No.: 20#176

Sampling location *GBC Mount Maunganui Service Centre, NZ*
Sample date *7/08/20*
Origin of Silica Fume *Qinghai Province, China.*
Physical form *Fine Grey Powder*
Grade *Densified*

Sample Batch identification: **3084B 1T Bag**

Property	Result	Test Method	AS/NZS 3582.3 Requirements	Testing Authority
Moisture %	0.3	AS 3583.2	3.0 max	GBC Portland
Loss on Ignition %	1.6	AS 3583.3	6.0 max	GBC Portland
SO ₃ %	1.2	AS 3583.8	3.0 max	Cement Australia
SiO ₂ %	96.6	XRF	> 85	SpectraChem Analytical Ltd
Total Alkali Content (Na ₂ O equiv.) %	0.56	XRF	-	SpectraChem Analytical Ltd
Chloride Ion %	0.016	AS 3583.13	-	Cement Australia
Surface Area BET m ² /g	19.1	BET ASTM C1069	-	Auckland University
Strength Index %	122	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: 8/10/2020

Raki Harding
Technical Manager
Golden Bay Cement

