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Test Certificate for Silica Fume: Microsilica SF

Test Report No.: 21#175

Sampling location *GBC Mount Maunganui Service Centre, NZ*
Sample date *30/07/21*
Origin of Silica Fume *Qinghai Province, China.*
Physical form *Fine Grey Powder*
Grade *Densified*

Sample Batch identification: 3210B 10kg Bag

Property	Result	Test Method	AS/NZS 3582.3 Requirements	Testing Authority
Moisture %	1.0	AS 3583.2	3.0 max	GBC Portland
Loss on Ignition %	2.7	AS 3583.3	6.0 max	GBC Portland
SO ₃ %	0.7	AS 3583.8	3.0 max	Cement Australia
SiO ₂ %	95.2	XRF	> 85	SpectraChem Analytical Ltd
Total Alkali Content (Na ₂ O equiv.) %	0.76	XRF	-	SpectraChem Analytical Ltd
Chloride Ion %	0.017	AS 3583.13	-	Cement Australia
Surface Area BET m ² /g	18.2	BET ASTM C1069	-	Auckland University
Strength Index %	129	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: 7/09/2021

Raki Harding
Technical Manager
Golden Bay Cement

