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Test Certificate for Silica Fume: Microsilica SF

Test Report No.: 20#218

Sampling location *GBC Mount Maunganui Service Centre, NZ*
Sample date *24/09/20*
Origin of Silica Fume *Qinghai Province, China.*
Physical form *Fine Grey Powder*
Grade *Densified*

Sample Batch identification: 3166B 10kg Bag

Property	Result	Test Method	AS/NZS 3582.3 Requirements	Testing Authority
Moisture %	0.9	AS 3583.2	3.0 max	GBC Portland
Loss on Ignition %	2.8	AS 3583.3	6.0 max	GBC Portland
SO ₃ %	0.4	AS 3583.8	3.0 max	Cement Australia
SiO ₂ %	93.4	XRF	> 85	SpectraChem Analytical Ltd
Total Alkali Content (Na ₂ O equiv.) %	1.54	XRF	-	SpectraChem Analytical Ltd
Chloride Ion %	0.078	AS 3583.13	-	Cement Australia
Surface Area BET m ² /g	15.9	BET ASTM C1069	-	Auckland University
Strength Index %	98	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.

Raki Harding
Technical Manager
Golden Bay Cement



Date: 23/11/2020