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Test Certificate for Silica Fume: Microsilica SF

Test Report No.: 19#285

Sampling location *GBC Mount Maunganui Service Centre, NZ*
Sample date *30/08/19*
Origin of Silica Fume *Qinghai Province, China.*
Physical form *Fine Grey Powder*
Grade *Densified*

Sample Batch identification: **3083B_3085B**

Property	Result	Test Method	AS/NZS 3582.3 Requirements	Testing Authority
Moisture %	0.96	AS 3583.2	3.0 max	GBC Portland
Loss on Ignition %	1.94	AS 3583.3	6.0 max	GBC Portland
SO ₃ %	0.3	AS 3583.8	3.0 max	Cement Australia
SiO ₂ %	95.16	XRF	> 85	SpectraChem Analytical Ltd
Total Alkali Content (Na ₂ O equiv.) %	0.95	XRF	-	SpectraChem Analytical Ltd
Chloride Ion %	0.052	AS 3583.13	-	Cement Australia
Surface Area BET m ² /g	17.7	BET ASTM C1069	-	Auckland University
Strength Index %	113	ASTM C1240	-	Cement Australia

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

Jim White
Quality System Co-ordinator
Golden Bay Cement

Date: 12/12/2019