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## Test Certificate for Silica Fume: Microsilica SF

## Test Report No.: 21#15

Sampling location	GBC Mount Maunganui Service Centre, NZ
Sample date	12/11/20
Origin of Silica Fume	Qinghai Province, China.
Physical form	Fine Grey Powder
Grade	Densified

## Sample Batch identification:

3178B 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 %	2.1	AS 3583.3	6.0 max	GBC Portland
SO₃%	0.3	AS 3583.8	3.0 max	Cement Australia
SiO <sub>2</sub> %	93.5	XRF	> 85	SpectraChem Analytical Ltd
Total Alkali Content (Na2O equiv.) %	1.53	XRF	-	SpectraChem Analytical Ltd
Chloride Ion %	0.076	AS 3583.13	-	Cement Australia
Surface Area BET m <sub>2</sub> /g	16.9	BET ASTM C1069	-	Auckland University
Strength Index %	124	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: 18/01/2021

Raki Harding Technical Manager Golden Bay Cement