



810 Great South Road, Penrose,  
Auckland 1061,  
New Zealand.  
Telephone: 0800 CEMENT (236 368)  
E-mail: customer.servicesoffice@goldenbay.co.nz

### Test Certificate for Silica Fume: Microsilica SF

#### Test Report No.: 21#223

Sampling location *GBC Mount Maunganui Service Centre, NZ*  
Sample date *31/10/21*  
Origin of Silica Fume *Qinghai Province, China.*  
Physical form *Fine Grey Powder*  
Grade *Densified*

**Sample Batch identification: 3213B 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 %	2.2	AS 3583.3	6.0 max	GBC Portland
SO <sub>3</sub> %	0.8	AS 3583.8	3.0 max	Cement Australia
SiO <sub>2</sub> %	96.5	XRF	> 85	SpectraChem Analytical Ltd
Total Alkali Content (Na <sub>2</sub> O equiv.) %	0.48	XRF	-	SpectraChem Analytical Ltd
Chloride Ion %	0.002	AS 3583.13	-	Cement Australia
Surface Area BET m <sup>2</sup> /g	18.7	BET ASTM C1069	-	Auckland University
Strength Index %	132	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: 29/12/2021

Raki Harding  
Quality Manager  
Golden Bay Cement

