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### Test Certificate for Silica Fume: Microsilica SF

#### Test Report No.: 19#45

Sampling location *GBC Mount Maunganui Service Centre, NZ*  
Sample date *10/12/18*  
Origin of Silica Fume *Qinghai Province, China.*  
Physical form *Fine Grey Powder*  
Grade *Densified*

**Sample Batch identification: 3031B**

Property	Result	Test Method	AS/NZS 3582.3 Requirements	Testing Authority
Moisture %	0.36	AS 3583.2	3.0 max	GBC Portland
Loss of Ignition %	1.40	AS 3583.3	6.0 max	GBC Portland
SO <sub>3</sub> %	0.1	AS 3583.8	3.0 max	Cement Australia
SiO <sub>2</sub> %	96.88	XRF	> 85	SpectraChem Analytical Ltd
Total Alkali Content (Na <sub>2</sub> O equiv.) %	0.83	XRF	-	SpectraChem Analytical Ltd
Chloride Ion %	0.012	AS 3583.13	-	Cement Australia
Surface Area BET m <sup>2</sup> /g	23.1	BET ASTM C1069	-	Auckland University
Strength Index %	133	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  
GBC Winstone

Date: 22/02/2019