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Test Certificate for Silica Fume: Microsilica SF

Test Report No.: 21#48

Sampling location *GBC Mount Maunganui Service Centre, NZ*
Sample date *01/12/20*
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 % | 3.0 | AS 3583.3 | 6.0 max | GBC Portland |
| SO ₃ % | 0.4 | AS 3583.8 | 3.0 max | Cement Australia |
| SiO ₂ % | 93.5 | XRF | > 85 | SpectraChem Analytical Ltd |
| Total Alkali Content (Na ₂ O equiv.) % | 1.47 | XRF | - | SpectraChem Analytical Ltd |
| Chloride Ion % | 0.075 | AS 3583.13 | - | Cement Australia |
| Surface Area BET m ² /g | 17.0 | BET ASTM C1069 | - | Auckland University |
| Strength Index % | 122 | 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: 4/03/2021

Raki Harding
Technical Manager
Golden Bay Cement

