

New Zealand Independent Cement

25 Esk Street, Level 6, Invercargill, New Zealand

Test Certificate for Fly Ash

Source: Nellore

Testing Laboratory: Holcim Laboratory

Sample Date: 14/08/2024

Sampling Location: Shed, Clifton Invercargill

Sample ID: FD240814

Grade of Sample: Grade 1

Property	Result	Test Method	AS/NZS 3582.1:2016 limits
Fineness by mass passing 45µm sieve %	93.4	AS3583.1	75 minimum
Moisture content %	0.04	AS3583.2	0.5 maximum
Loss on ignition %	0.4	AS3583.3	4.0 maximum
Relative density	2.15	AS3583.5	-
Relative water requirement %	94	AS3583.6	-
Relative Strength index (7-day accelerated) %	90	AS3583.6	75 minimum
Chloride ion content %	<0.002	AS3583.13	0.1 maximum
Total alkali (Na ₂ O eq.) %	1.0	AS2350.2	
Sulphate (as SO ₃) content %	0.1	AS2350.2	3.0 maximum
Chemical composition NZ (SiO ₂ + Al ₂ O ₃ +Fe ₂ O ₃)	93.0	AS2350.2	60 minimum

Samples tested as received and are tested in accordance with AS/NZS 3582.1:2016.

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Bob Officer
National Technical Manager

Report Number: F24002
Report Date: 23/09/2024