SWEP PTY. LTD. ANALYTICAL LABORATORIES

ABN 26 005 031 569

Tel: (03) 9701 6007

REPORT ON SAMPLE OF LIME

FILE NO : 2505191875 **DATE ISSUED :** 21/05/2025

CHARGENE PTY LTD
PO BOX 190

CARRICK , TAS 7291

CLIENT ID : CHA120
PHONE :

SAMPLE ID : RR DOLOMITE MAY 2025 **DATE RECEIVED :** 21/05/2025
ANALYSIS REQUIRED : Lime quality

ITEMS	ABBREVIATION	UNIT	RESULTS
Results of analysis on sample on dry weight basis:			
pH (1:5 Water)			**9.44**
Electrical Conductivity	EC	µS/cm	**250**
TOTAL CALCIUM	Ca	%	**22.44**
TOTAL MAGNESIUM	Mg	%	**11.8**
TOTAL SODIUM	Na	%	**0.025**
CALCIUM CARBONATE	$CaCO_3$	%	**56.1**
	(Calculated from Total Calcium)		
MAGNESIUM CARBONATE	$MgCO_3$	%	**41.3**
	(Calculated from Total Magnesium)		
MOISTURE CONTENT	MC	%	**0.445**
MATERIAL > 2mm		%	**0.777**
MATERIAL 1.00 - 2.00 mm		%	**10.9**
MATERIAL 0.85 - 1.00 mm		%	**6.01**
MATERIAL 0.30 - 0.85 mm		%	**36.6**
MATERIAL 0.075 - 0.30 mm		%	**20**
MATERIAL < 0.075mm		%	**25.6**
NEUTRALISING VALUE	NV	%	**105**
EFFECTIVE NEUTRALISING VALUE	ENV	%	**72.8**

Notes on Neutralising Value

Neutralising Value is a measure of the amount of acidity a material can neutralise, or in the case of lime, its total liming value. An approximation of Neutralising Value can be made by $CaCO_3$ + (2.5 x MgO).

Effective Neutralising Value is a calculated adjustment of the Neutralising Value, using the fineness of the lime. Lime retained on an 850 µm sieve (the coarser fraction) is estimated to be only 10% effective (fully utilised in the short term). Lime in the 300-850 µm sieve range (medium sized fraction) is estimated to be only 60% effective, while lime passing the 300 µm sieve (finer fraction) is estimated to be 100% effective.

Where a lime has a low Effective Neutralising Value (due to a high proportion of coarse fraction), further grinding should increase its effectiveness to change the pH.

SWEP Analytical Laboratories
45 - 47 / 174 Bridge Road
Keysborough VIC 3173 Australia

Website: www.swep.com.au
E-mail: services@swep.com.au
Postal Address: P.O. Box 583 Noble Park VIC 3174