

AquaLIME 38™ (Flowable Lime)

Product Code: SG0037



AquaLIME 38™ is a highly flowable calcium carbonate suspension designed to deliver high purity, micronized particles to the soil to raise pH and improve soil structure. Through foliar application, it provides an extremely efficient source of calcium to crops.

AquaLIME 38™ utilizes a highly advanced industrial process to hold the micronized particles in suspension, thereby improving the dispersion of the product when applied to the soil or foliage.

AquaLIME 38™ is an extremely concentrated and reactive form of calcium carbonate (or “lime”). It is produced by a specialised milling process where the high purity raw material is ground to 1 micron in size. The product’s extreme fineness delivers an impressive surface area of 13 m²/g, significantly enhancing its reactivity within the soil compared to all other forms of calcium carbonate.

AquaLIME 38™ has a superior Neutralising Value (NV) of 99 (pure calcium carbonate at NV 100 is the benchmark) compared to other fluid lime sources on the Australian market. However, this is only part of the story - because of the fineness of AquaLIME 38, its effective Neutralising Value is considered to be 99 because every particle is 100% reactive in the soil.

Also, it is far more effective in higher pH soils. A coarse aglime will struggle to lift soil pH above 6 because the logarithmic response of the pH scale means the soil environment isn’t acidic enough to react and dissolve coarser lime particles. AquaLIME 38™ can further assist in pH adjustment.



“The high-grade material in AquaLIME 38™ means responses are extremely fast in the drip zone – in Thailand on red tropical soil, for example, the pH increased from 4.6 to 5.7 in three weeks after an application of 32 L/ha!”

Why Use AquaLIME 38™?

- Highly uniform - extremely fine particle size (1 micron)
- Highly reactive - high purity calcium carbonate
- Neutralizing Value of 99
- Flowable for easy pumping
- Can be applied to soil as a broadcast or banded application or via irrigation systems
- Can be applied to crops as a foliar calcium treatment

Chemical Analysis;

Calcium (Ca):	38% w/v
Carbonate (CO ₃):	57.7% w/v
Carbon (C):	11.6 % w/v
pH:	9 - 10
Specific Gravity:	1.60 kg/L
Neutralising Value:	99

Application Rates (Soil)

Soil Type/Textural Class	L per ha AquaLIME 38™ (per 0.1 pH improvement)
Sands / Loamy Sands	30 - 40
Sandy / Silty Loams	50 - 70
Sandy Clay Loams	70 - 85
Light to Medium Clays	85 - 90
Heavy Clays	90 +

Application Rates (Foliar)

Foliar Applications

Crop Type	Growth Stage						
	Pink Bud	Flowering	Fruit Set	Fruit Development	Ripening	Total	
Apples	5 - 10 L/ha with >1500 L/ha Water	No application during this period	5 - 10 L/ha with >1500 L/ha Water	5 - 10 L/ha with >1500 L/ha Water	5 - 10 L/ha with >1500 L/ha Water	25 - 50 L/ha	
	Pre-Flowering	Fruit Development	Ripening	Post Harvest		Total	
Cherry	5 - 10 L/ha with >1500 L/ha Water	5 - 10 L/ha with >1500 L/ha Water	5 - 10 L/ha with >1500 L/ha Water	5 - 10 L/ha with >1500 L/ha Water		20 - 40 L/ha	
	Vegetative	Flowering	Fruit Set	Fruit Development	Ripening	Harvest	Total
Tomatoes	5 - 10 L/ha with >1000 L/ha Water	No application during this period	5 - 10 L/ha with >1000 L/ha Water	5 - 10 L/ha with >1000 L/ha Water	5 - 10 L/ha with >1000 L/ha Water	5 - 10 L/ha with >1000 L/ha Water	30 - 60 L/ha
	Or fertigate with irrigation system at the same rate		Or fertigate with irrigation system at the same rate	Or fertigate with irrigation system at the same rate	Or fertigate with irrigation system at the same rate	Or fertigate with irrigation system at the same rate	

Soil Banded or Broadcast Applications

Crop Type	Growth Stage	
	3-4 Leaf Stage	7-8 Leaf Stage
Potato	Tuber Initiation to Canopy Closure	
	200 - 500 L/ha with 400 to 800 L/ha Water	
Carrot	100-200 L/ha with 400 to 800 L/ha Water	100-200 L/ha with 400 to 800 L/ha Water

Nutrient Efficiency versus Soil pH

Element	pH 4.5	pH 5.0	pH 5.5	pH 6.0	pH 6.5
Nitrogen (N)	30%	43%	77%	89%	100%
Phosphorus (P)	23%	31%	48%	52%	100%
Potassium (K)	33%	52%	77%	100%	100%