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 m^2/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

AquaLIME 38 - Furrow Application

The photo to the left (Smeaton, VIC) shows that the pH in the root zone **(1)** is higher in the root zone compared to the surrounding region **(2)** as a result of AquaLIME 38 application.

AquaLIME 38 was applied at 10 L/ha
as liquid injection with 50 L/ha of water.

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 +

Product Compatibility*

Water Quantity (L)	Liquid Lime 38 Quantity (L)	Urea 22 Quantity (L)	ZC Chel Quantity (L)	Compatibility
50	10	-	2	Compatible
50	10	-	-	Compatible
-	10	50	-	Compatible
-	10	50	2	Compatible

Disclaimer: This compatibility chart represents physical compatibility of SLTEC® products. All testing is completed under laboratory conditions. The outcomes below are based on a four hour tank mix and may not represent the practices or time line of your specific application. As there are many variables in each application situation such as water volume, quality and pH, interpretations and the recommendations given here are a guide only, we recommend completing a bucket test prior to application. These recommendations are made in good faith, based on the best technical information we have available. Additionally, environmental and managerial factors influence crop production, therefore Sustainable Liquid Technology Pty Ltd does not accept any liability arising out of these interpretations and recommendations for any damage loss or injury of any nature and the user considers these interpretations and recommendations on these terms.

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%