

MICRONA™ Ag H2O Solution Grade

Adjust pH and provide calcium nutrition.

Ultrafine, natural, calcitic limestone with proven advantages over standard ag-lime. Simple to mix with water, use in direct soil and spray applications for fast reaction.

38% Calcium, 96% Calcium Carbonate, 98% Calcium Carbonate Equivalent

- Manage calcium and pH in one application
- Reach your target pH in weeks
- Consistent results
- Low application rates
- Apply anytime
- Safe to handle, non-caustic, will not burn

MICRONA™ Prill

MICRONA™ - Prilled Lime

33% Calcium, 82% Calcium Carbonate, 88% Calcium Carbonate Equivalent

MICRONA™ Prill - Gypsum

92% Calcium Sulfate Dihydrate, 21% Calcium, 17% Sulfur

- Flexible application
- Feed stock is high quality, super-fine ground, fast reacting or quick dissolution
- Minimum binders – dissolves easily
- Uniform – blends and handles well
- Lower application rates, precision applied
- Safe to handle, non-caustic, will not burn

HydroCal®

Liquid Calcium Carbonate

Liquid lime to adjust pH and provide calcium nutrition. Micronized calcium carbonate. HydroCal's rapid reactivity corrects acid soils and calcium deficiencies. Can be used in most water run systems.

29% Calcium, 73% Calcium Carbonate, 74% Calcium Carbonate Equivalent

- HydroCal liquid lime is micronized by special wet milling technology
- Ultra fine grade for immediate availability
- Apply through center pivot, solid set or hand line
- Spray apply. Reach your target pH in weeks with reduced application rates and lower input cost
- Safe to handle, non-caustic, will not burn



MICRONA™ Ag H2O
MICRONA™ Prill
HydroCal®

Notes:



A Division of Columbia River Carbonates
300 N Pekin Rd., Woodland, WA 98674

(360) 225-6505

MicronaAg.com



MICRONA™ Calcium Nutrition in Your Small Fruits

Calcium is a vital nutrient for small fruit production. Not only does calcium play an important role for cell formation, it is critical for the production of high quality fruit. Calcium increases shelf life, fruit firmness and reduces rotting. Calcium can also improve disease resistance in small fruits, including botrytis.

Features and Benefits

- Manage pH and calcium in one application
- Predictable, cost effective calcium nutrition
- Proven calcium release rates and uptake
- Improves berry quality and pack out
- Safe to handle, non-caustic
- Use standard equipment
- Can be blended and applied with other products to save passes across the field



Small Fruit Benefit:

Higher calcium content in fruit consistently reduces decay allowing multiple harvests, and longer storage. Improved yields have been observed in plants given supplementary calcium.

Caneberry Trial 2014-15

Soil pH was managed in an established cane berry field with MICRONA™ application at 1/8th the rate of grower standard practice using precision placement. MICRONA is produced through specialized manufacturing process ensuring complete mineral efficiency as demonstrated.



Columbia River Carbonates Raspberry Trial 2014 - 2015

| Treatment | Application Rate | pH Pretreatment | pH Year After Treatment |
|-----------|------------------|-----------------|-------------------------|
| AG H2O | 500#/a | 5.9 | 6 |
| Prill | 500#/a | 5.9 | 6 |
| Powder | 4000#/a | 6 | 5.9 |
| Control | No Lime | 6 | 5.7 |

| Application Rates |
|---|
| MICRONA™ AG H2O Solution Grade applied at a rate of 500#s per acre |
| MICRONA™- Prilled Lime applied at a rate of 500#s per acre |
| Powder - Competitive lime product 90% under 100 mesh applied at a rate of 4000# per acre (Grower Standard Practice) |
| Control - No lime was used |

Trial Highlights

- Increased soil pH
- Manage pH in established permanent crops
- Reduced rates and reduced cost per acre

Growers with low soil test calcium values or soil pH have seen significant benefits from the application of MICRONA™ lime products.

Trial Management:

Split block, three products and control. Application was done in the spring before dry fertilizer application. Dataset generated in Whatcom County.

Although the information are presented in good faith and believed to be correct, Columbia River Carbonates makes no representations or warranties as to the completeness or accuracy of the information. Information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. In no event will Columbia River Carbonates be responsible for damages of any nature whatsoever resulting from the use of or reliance upon information from this site or the products to which the information refers. THIS INFORMATION IS PROVIDED WITHOUT REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO INFORMATION OR THE PRODUCTS TO WHICH INFORMATION REFERS.