agro**technology**

AGRO 100®

calcium

AgroCal500®

GYPSUM

Optimize crop yields, harvest quality, and soil fertility

Using an enrichment product is justified by both its agronomic and economic benefits. Managing soil structure and nutritional elements replenishment is vital for maintaining the soil's production potential. **AgroCal500 Gypsum improves the firmness of fruits and tubers, resistance to shock and preservation ability.** That is why **AgroCal500 Gypsum** represents an excellent investment for the growth of your business.

Gypsum (calcium sulphate) encourages agregate formation and improves the structure of medium and heavy soils. It has three functions: fertilizing, liming, and revitalizing. The soil is aerated thus contributing to better water retention. Improving soil structure is the foundation of microorganism activity and allows for a greater availability of nutritional elements.

AgroCal500 Gypsum is an ideal source of calcium and sulphur, two critical nutritional elements often neglected in the fertilization program of many crops. This unique product contains:
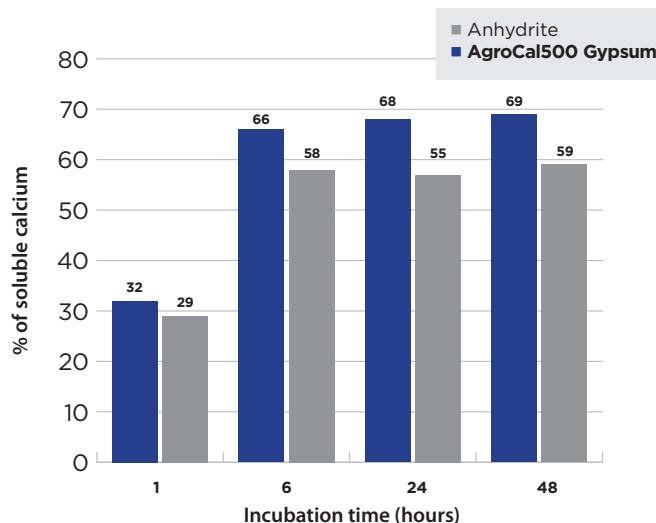
- **21% Ca** (calcium), crucial to the composition and growth of plant tissues;
- **15.5% S** (sulphur), vital to chlorophyll and protein synthesis and to the effectiveness of other nutrients.

AgroCal500 *vs* neutralized gypsum

- Contrary to neutralized gypsum (anhydrite), **AgroCal500 Gypsum** is quickly soluble in water; nutrients are made available immediately for the roots thus encouraging crops to grow faster.
- **AgroCal500 Gypsum** has no impact on the soil's pH level whatever the quantity applied whereas neutralized gypsum often contains residual lime which may raise the soil's pH level.

"Gypsum input is the most economical way to revitalize your soil. But beware: not all gypsums are alike."

Calcium water solubility of AgroCal500 Gypsum compared with neutralized anhydrite

Bar chart — % of soluble calcium vs Incubation time (hours).
Legend: Anhydrite (grey), AgroCal500 Gypsum (blue).
- 1 hour: AgroCal500 Gypsum 32, Anhydrite 29
- 6 hours: AgroCal500 Gypsum 66, Anhydrite 58
- 24 hours: AgroCal500 Gypsum 68, Anhydrite 55
- 48 hours: AgroCal500 Gypsum 69, Anhydrite 59

Feel free to contact us to discuss your needs: we are confident that we will find productive solutions to them.

FOR MORE INFORMATION
email **info@agro-100.com**   toll free **1 866 770.8887**

www.agro-100.com

// Calcium + Agro-100
a synergy for growth

Complete data and other information available from Agro-100 Ltd.

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Benefits of using **AgroCal500 Gypsum**

- Immediate input of calcium and sulphur, both essential elements for plant growth.
- Stimulates root establishment, plant growth and health.
- Stimulates chlorophyll formation (sulphur).
- Improves soil structure and porosity, easing root penetration and encouraging better air and water circulation.
- Prevents soil crusting formation (better seed germination) .
- Stimulates soil microbial activity.
- Increases availability of other elements in the soil and enhances the value of fertilizers.
- Reduces salinity (sodium displacement).
- Reduces aluminum toxicity in acid subsoil.
- No effect on the soil's pH level (ideal for potatoes, blueberries, etc.).
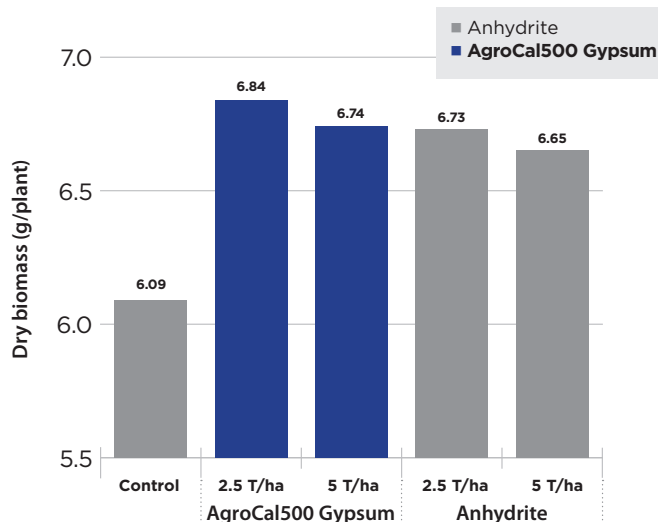
AgroCal500 Gypsum = harvest quality

- Limits physiological disorders associated with calcium deficiency (bitter pit in apples, blossom-end rot in tomatoes and peppers, tip burn in lettuce, etc.).
- Improves the firmness of fruits and tubers, resistance to shock and preservation ability.
- Encourages the growth of protein- and calcium-rich foods (sulphur effect).
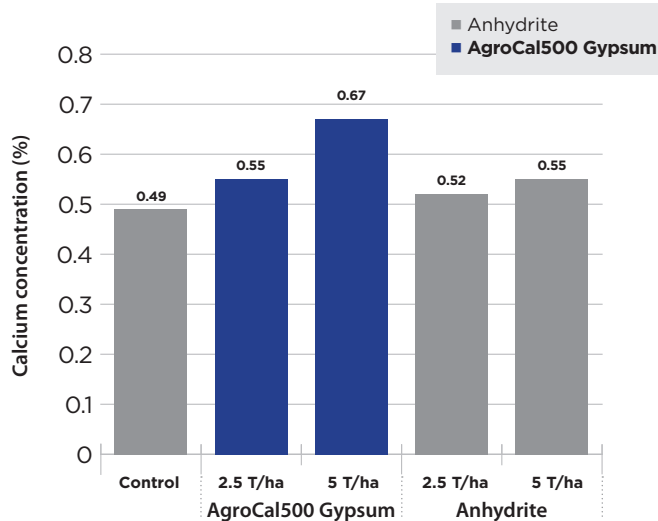- Increases protein contents.

Use recommendations

- Calcium and sulphur demanding crops.
- Crops sensitive to pH level rises.
- Sand- and clay-based soils.
- Compact soils.
- Organic matter-depleted soils.

If you need to improve calcium and sulphur supply to your crops and you want to set optimal conditions to provide vitality, health and yield to your plants, **AgroCal500 Gypsum** from **Agro-100** represents your best agronomic choice.

Corn biomass at 45 days post-emergence in a greenhouse

Legend: Anhydrite (grey), AgroCal500 Gypsum (blue)

Dry biomass (g/plant):
- Control: 6.09
- 2.5 T/ha AgroCal500 Gypsum: 6.84
- 5 T/ha AgroCal500 Gypsum: 6.74
- 2.5 T/ha Anhydrite: 6.73
- 5 T/ha Anhydrite: 6.65

Calcium concentration in corn foliage at 45 days post-emergence in a greenhouse

Legend: Anhydrite (grey), AgroCal500 Gypsum (blue)

Calcium concentration (%):
- Control: 0.49
- 2.5 T/ha AgroCal500 Gypsum: 0.55
- 5 T/ha AgroCal500 Gypsum: 0.67
- 2.5 T/ha Anhydrite: 0.52
- 5 T/ha Anhydrite: 0.55

Reference
Study conducted by Dr Régis Baziramakenga at the laboratories of Laval University, 2015-2016.

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