**The World's Most Advanced & Proven Soil Polymer Superabsorbent**

# AgraGel® T-400 Blue

Engineered specifically for moisture retention with the ability to release moisture to the plant upon demand. AgraGel® T-400 Blue is non-toxic, has a 7-10 year duration of performance and is blended with a high quality slow release fertilizer.

AgraGel® T-400 Blue crystals absorb and hold hundreds of times their weight in water, and then upon demand, release the moisture to the plant. Of all plant polymers now available, AgraGel® T-400 Blue crystals have the greatest absorption under soil pressure and perform more effectively in the presence of fertilizers and other water soluble soil additives. These crystals are completely non-toxic and due to their high resistance to electrolytes, remain actively effective for seven to ten years with a single installation. Affordable costs together with reduced irrigation requirements, fertilizer savings and significant increases in crop yields result in the most cost effective soil polymer product on the market.

## What is AgraGel® T-400 Blue

AgraGel® T-400 Blue crystals are potassium based, organic cross linked copolymers with water binding groups. In dry form, they are white, crystalline granules with a neutral pH and when hydrated, become a gel which retains fluids, even under soil pressure and in the presence of fertilizers and other soil additives. AgraGel® T-400 Blue crystals are characterized by high volume absorption and fluid retention and are available lin a carietyif crystal sizes for various soil requirements.

## How AgraGel® T-400 Blue works

When water or fluids come into contact with AgraGel T-400 Blue crystals, an electrical force pushes the inward structure of the particle away from the center via electrical repulsion. Small voids are created inside the particle drawing the water inward which results in rapid swelling of he crystal. When the water evaporates or is taken up by the plant, the particle shrinks and is ready for the process to repeat. .

These reservoirs of water (hydrogels) are evenly dispersed throughout the plant's root zone. When the soil dries out and reaches 50% of field capacity, the crystals are engineered to release their moisture to compensate for the outside soil pressure on the gel wall. This promotes the roots to grow to the new found moisture source provided by the presence of the hydrogels. In many cases the roots grow right through the hydrated crystals, extracting the moisture before moving on to the next closest one. This process promotes increased root mass resulting in larger plants and increased crop yield.

AgraGel T-400 Blue crystals extend the time between irrigations thus providing for more efficient use of available water contributing to water conservation.

# …and so many BENEFITS

**AgraGel® T-400 Blue** crystals significantly reduce water usage by extending the time between irrigations or by extending the benefits of rainfall.

**AgraGel® T-400 Blue** crystals dramatically increase crop yields and provide for faster plant establishement

**AgraGel® T-400 Blue** crystals are highly resistant to electrolytes yielding numerous hydration cycles. A single installation remains actively effective for seven to ten years.

**AgraGel® T-400 Blue** crystals retain fertilizers and other water soluble additives

**AgraGel® T-400 Blue** crystals remain effective in the presence of fertilizers, salts and other chemicals that adversely effect the absorption rates of all other soil polymers.

**AgraGel® T-400 Blue** crystals promote root growth resulting in larger, healthier plants. Increased crop yields due to greater root mass created by added moisture availability and presence of slow release fertilizer.

**AgraGel® T-400 Blue** crystals decompact soils which allows roots access to lower soil depths. This greatly improves availability of the applied irrigation, provides infiltration throughout the root zone and allows drainage due to the aeration provided by the shrink-swell cycles.

**AgraGel® T-400 Blue** crystals provides for uniform moisture conditions in soil, irrigation mats, geo-textiles and other agricultural media.

**AgraGel® T-400 Blue** crystals will not float through the soil matrix to the surface or create water rivlets when subjected to heavy rains oar watering schedules.

**AgraGel® T-400 Blue** crystals are completely non toxic and environmentally safe and will not contaminate plants, soil or ground water.

## SUMMARY

- Dramatically reduces the frequency of required watering schedules
- Significantly reduces leaching of fertilizers and other water soluble additives.
- Enables plant growth under poor, saline, sandy soil and compacted soil conditions
- Allows for plant growth in extremely hot and dry climates.
- Substantially reduces labor and maintenance costs associated with watering.
- Rapid absorption provides for direct benefits from rainfall or brief irrigation schedules
- Plants are healthier and grow faster and more abundantly resulting in greater crop yields
- Seven to ten year longevity of performance
- Extremely cost effective

### Physical Data on AgraGel® T-400 Blue

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| Chemical basis: | Highly cross linked potassium based Polyacrylate-polyacrylamide copolymer. |
| Physical form: | White granular crystals |
| Particle sizes: | Between 100-2000 microns |
| Bulk density: | 540+/- kilograms/cubic meter |
| pH value” | 6.0 to 6.8 |
| Moisture content: | < than 5% (+/- 2%) |
| Storage: | Indefinitely under dry conditions |

TERAWET
**Science in Sync with Nature**

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