GIVING CROPS THE NUTRITION THEY CRAVE.

IS YOUR SILICON SOURCE PLANT-AVAILABLE?
CrossOver® boasts one of the industry’s highest percentages of monosilicic acid, the only form of silicon plants can absorb.

CrossOver is a patented fertilizer and soil amendment offering highly available soluble silicon combined with calcium and magnesium. Its highly plant-available silicon formulation improves soil structure and crosses over to enhance your crop’s natural defense to stress for season-long vigor.

SILICON: ROOTS TO SHOOTS
Silicon is taken up by plants as monosilicic acid, and transported from the roots to the shoots where it is deposited as solid, hydrated plant silica (phytoliths). Although silicon is the second most abundant element on earth, it exists primarily as silica and is not plant-available. For plants to absorb silicon, it must first be converted into monosilicic acid (plant-available silicon). This is the only form available to plants. Further, plants can only take in soluble silicon through the roots.

CrossOver Ag DELIVERS PLANT-AVAILABLE SILICON
In today’s high-production cropping, soils are showing increasingly deficient levels in plant-available silicon. Replenishing your soil with a guaranteed proven source of plant-available silicon is the first step to protecting your crops against stress induced yield loss.

CrossOver’s patented formulation provides plant-available soluble silicon (as monosilicic acid) for immediate activity within plant and soil chemistry. CrossOver Ag is a highly effective, sustainable and essential tool for crop fertility programs.

The CrossOver Power Benefits

- IMPROVES soil structure
- ENHANCES soil stability
- HELPS PREVENT metal toxicity
- INCREASES phos availability
- HELPS PREVENT sodium toxicity
- IMPROVES nutrient efficiency
- INCREASES photosynthesis
- ELEVATES stress tolerance
CROSSING OVER FROM THE SOIL TO THE PLANT

Improves Soils with Compromised Structure and Stability (Low and High pH Soils)

The combination of silicon-based geopolymers with calcium form a much stronger attraction between particles than just calcium alone. This combination creates stronger soil aggregates with far more stability and less susceptibility to reversal should sodic or acidic conditions return.

Improved structure and stability restores air and water movement.

Under acidic and sodic soil conditions, metals and carbonates have a higher affinity for soluble silicon, releasing tied-up phosphorus (P) in the process. Additionally, silicon in the soil provides an exchange site for P to reattach and remain available, preventing P from re-tie up.

PRODUCT OFFERING

CrossOver Ag and CrossOver G Ag (Gypsum enhanced) are available in 280 SGN, 50-pound bags or 2,000-pound totes. CrossOver can be used as a stand-alone product or incorporated into granular blends.

ENHANCES YOUR CROP’S ADAPTIVE CAPACITY

➤ Provides improvement in structural integrity, amplifying the plant’s ability to defend itself against environmental and biological stresses.

➤ This results in increased water absorption, decreased water loss under conditions like drought and extreme heat, and increased natural defense against disease.

MANAGING MULTIPLE STRESSES

In the past decade, leading researchers and manufacturers have been developing solutions that enable crops to better tolerate vulnerability rather than using curative chemical products. Many symptoms of stress such as poor growth, weakened plants and diminished crop quality are caused by multiple environmental factors that occur simultaneously, such as drought and heat stress.

CrossOver’s combination of plant-available silicon, magnesium and calcium improves specialty crops’ adaptive capacity against these stresses – resulting in healthier crops and higher yields.

TYPICAL ANALYSIS

<table>
<thead>
<tr>
<th>Chemical Composition (%)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium</td>
<td>26.0%</td>
</tr>
<tr>
<td>Magnesium</td>
<td>6.5%</td>
</tr>
<tr>
<td>Bulk Density (lbs/ft³)</td>
<td>72.0</td>
</tr>
<tr>
<td>Soluble Silicon (H₄SiO₄ – Plant-Available Silicon)</td>
<td>2.0%</td>
</tr>
<tr>
<td>Silicon Dioxide (SiO₂)</td>
<td>22.6%</td>
</tr>
</tbody>
</table>

Boost nutrient availability, efficiency and crops’ natural defense to stress with CrossOver. Learn more at CrossOver-Silicon.com