

**Two Powerful
Stress
Fighters United**

PO₃ Phosphite + Silica

- Fights Plant Stress
- Creates Tough Turf

**Phosphite:
The Energy Element**

- Increases Plant Energy
- ATP: Energy Battery
- Fights Turf Stress

Triggers the Three R's

- Resist
- Repair
- Recover

**Silica:
Strong, Tough Turf**

- Armor Plates Turf
- Increased Resistance To:
 - Stress
- Increased Root Growth
- Drought Tolerance
- Faster Greens

**Advanced Turf Nutrition
Maintain Constant
PO₃ & Silica Level**

- 17-5-11: constant low PO₃
 - 0-20-26: booster level PO₃
 - Each contains:
 - 1% Soluble Silica
 - Potassium acetate
- Nitrogen: Urea-triazone



*Replaces conventional
foliar fertilizers with
Advanced Turf Nutrition*

Fosilica is a new nutrient combination of PO₃ phosphite and potassium silicate in a perfect marriage of two powerful plant stress fighters that work together from two different modes of action to enhance turf quality. Phosphite chemically stimulates turf defenses to stress while silica works to physically harden turf against stress, as well as toughens turf to make it more resilient and faster to recover from physical damage and hard play.

Phosphorous in the form of Phosphite (PO₃) is radically different than the traditional form of Phosphate (PO₄). Phosphite (PO₃) increases the energy level within the plant by increasing ATP production, the energy storage battery in the plant that powers all physiological functions, such as photosynthesis and new cell development.

Whether it's environmental extremes or root and shoot production, turf is in a constant state of **Resisting**, **Repairing** and **Recovering** from some environmental and/or physiological stress. Phosphite (PO₃) increases turf's internal energy reserves and helps turf to **Resist**, **Repair** and **Recover** from stress conditions that threaten turf quality and even survival.

Soluble Silica is taken up by the plant and translocated to the leaf area where it is deposited in layers beneath the epidermis. Silica toughens the leaf, acting like armor plates against environmental stresses. The increased mechanical strength improves turf's resistance and becomes less problematic. The added strength makes the plant less dependent on osmotic pressure for leaf and stem turgidity, resulting in more drought tolerance. Fosilica with high levels of PO₃, soluble silica (Si) and K-PRIME potassium acetate is highly advanced with significant advantages over traditional N-P-K foliar fertilizers.

**Advanced Turf Nutrition
Stimulates and Strengthens Turf**

Fosilica replaces conventional foliar fertilizers with superior slow release nitrogen, highly soluble potassium acetate and with the added bonuses of 100% PO₃ phosphite and soluble silica **all in one package**.

Advanced Turf Nutrition is based on maintaining constant levels of soluble silica and PO₃ in turf tissue **at all times** by alternating low and high analysis Fosilica. By alternating the two formulas, optimum turf conditions can result. The table below will serve as a guide.

Product	Rate per 1000 sq. ft.	Comments
Fosilica 17-5-11 + 1% Si	4-8 oz.	Why Two Analysis? Advanced Turf Nutrition depends upon keeping a constant level of PO ₃ phosphite and silica in the plant tissue. This can be done by alternating a high analysis and low analysis phosphite-silica fertilizer. Boost the levels of phosphite and silica in the plant first with Fosilica 0-20-26 + 1% Si and follow with 3 weekly applications of Fosilica 17-5-11 + 1% Si to evenly maintain the PO ₃ and Si levels. Every 4th week give turf a booster shot of Fosilica 0-20-26 + 1% Si.
Fosilica 0-20-26 + 1% Si	6 oz.	

