

PROPLUS® AQUA-PHIX™

Safely and quickly decrease soil pH for healthier, thicker turf.

New Aqua-pHix™ is a proprietary blend of chelated, buffered acid with a pH < 1.0 designed to help manage hard water and highly alkaline soil. It is safe for people, equipment and turf. It is also more effective than any other sprayable acidifier on the market, and the most cost-efficient treatment available.

ProPlus® Aqua-pHix from Profile® is proven to:

- Quickly decrease pH of soil solution to make it more chemically conducive to plant growth.
- Flush unwanted salts and reduce bicarbonates in the soil.
- Make nutrients such as nitrogen, phosphorous, potassium, calcium, iron, zinc and others more readily available in the soil solution for plant uptake and conversion.
- Facilitate more complete nutrient utilization to minimize leaching or runoff into streams, rivers, lakes, bays and groundwater.
- Loosen soils to improve water infiltration and to promote more robust root development.

ProPlus Aqua-pHix is available in three formulations to fit your preferred method of application:

- **Granular**—The only granular acidifier available for cost-effective topdressing and aeration infill—slow-release acid provides longer effectiveness.
- **Spray**—Proven safe for use with commonly used spray equipment.
- **Fertigation**—Specially formulated to work with all fertigation systems.

AQUA-PHIX IS SAFER:

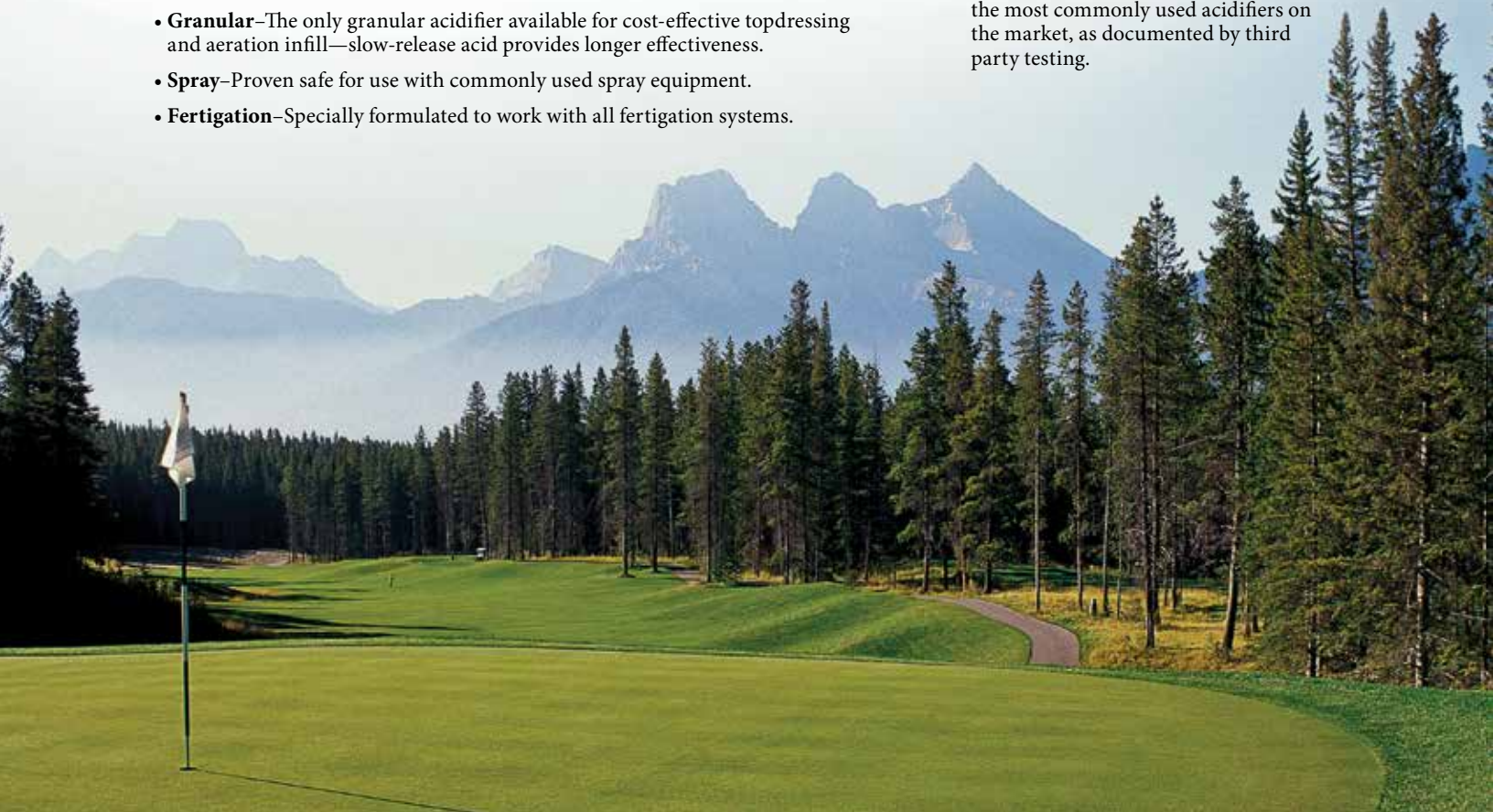
Unlike commonly used sulfuric acid, buffered chelated acid has been proven in independent testing to be non-destructive to skin; non-corrosive to spray or irrigation equipment, and when applied at a minimal 25:1 dilution rate, will not burn turf.

AQUA-PHIX IS MORE EFFECTIVE:

You can use less while still getting twice the results as the leading sprayable acid product on the market, as documented by third party testing. Plus, Aqua-pHix does not include nitrogen, which some products include in order to create the appearance of an immediate benefit.

AQUA-PHIX IS COST EFFICIENT:

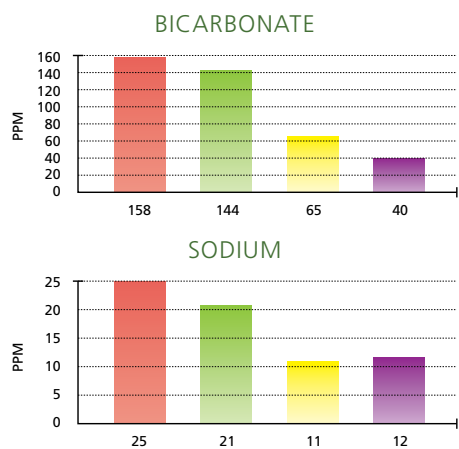
Aqua-pHix is the easiest, most cost-efficient method to treat hard water when used on a consistent basis. Initial cost and cost-in-use are significantly lower than the most commonly used acidifiers on the market, as documented by third party testing.



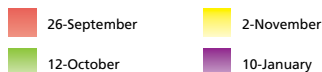
An easier way to balance your soils.

AQUA-PHIX™ GRANULAR FORMULA EFFICACY CASE STUDY

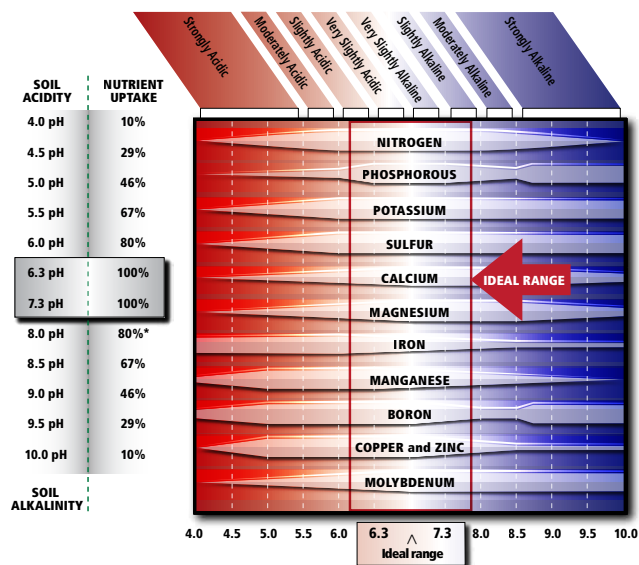
On the greens of Grapevine Golf Course in Grapevine, Texas, Aqua-pHix granular was added to the root zone at a rate of 200 lbs / 1,000 sq ft (90.71 kg / 92.90 m²) using the DryJect® system. Soil samples were then taken four times over a 105-day period. The results showed a continuous improvement of soil conditions throughout the testing run by Brookside Laboratories including a **75% reduction in bicarbonate** and **52% reduction in sodium**.



SOIL ANALYSIS BY BROOKSIDE LABORATORIES



Areas indicated in medium and dark blue are the most susceptible to the ill effects of hard water. Consistent use of Aqua-pHix can help bring your pH levels back into a more productive zone between 6.3 and 7.3.



*80% Nutrient Uptake = 20% Wasted nutrients

Wasted nutrients are unavailable to plants, increasing fertilizer costs.

Wasted nutrients are more susceptible to leaching out of the root zone or running off site into nearby water bodies.

AQUA-PHIX APPLICATION RATES

Bicarbonate ¹ (ppm)	Granular ²	Granular ² (metric)	Spray ³	Spray ³ (metric)	Fertigation ⁴	Fertigation ⁴ (metric)
≥ 25 & < 75	2.5 lb / 1,000 ft ²	1.13 kg / 92.90 m ²	1 gal / ac	9.35 L / ha	5 gal / 100,000 gal water	18.92 L / 378,541.18 L
≥ 75 & < 150	5 lb / 1,000 ft ²	2.27 kg / 92.90 m ²	2 gal / ac	18.71 L / ha	10 gal / 100,000 gal water	37.85 L / 378,541.18 L
≥ 150 & < 250	10 lb / 1,000 ft ²	4.54 kg / 92.90 m ²	4 gal / ac	37.42 L / ha	25 gal / 100,000 gal water	94.64 L / 378,541.18 L
≥ 250 & < 350	15 lb / 1,000 ft ²	6.80 kg / 92.90 m ²	6 gal / ac	56.12 L / ha	45 gal / 100,000 gal water	170.34 L / 378,541.18 L
≥ 350 & < 425	20 lb / 1,000 ft ²	9.07 kg / 92.90 m ²	8 gal / ac	74.83 L / ha	70 gal / 100,000 gal water	264.98 L / 378,541.18 L
≥ 425 & < 475	22.5 lb / 1,000 ft ²	10.21 kg / 92.90 m ²	9 gal / ac	84.19 L / ha	85 gal / 100,000 gal water	321.76 L / 378,541.18 L

¹ A saturated paste soil test is recommended to determine bicarbonate levels.

² For topdressing applications: If incorporating product into a root zone through DryJect or backfilling aerification holes, a minimum rate of 150 lb / 1,000 sq ft (68.04 kg / 92.90 m²) is recommended for higher performance through increased residual/longer release.

³ Based on irrigation water hardness: Apply 1-9 gal (3.79-34.07 L) in 50-450 gal (189.27-1,703.44 L) of water per acre for optimum dilution rate of 50 parts water: 1 part Aqua-pHix.

⁴ Minimum dilution rate 25 parts water: 1 part Aqua-pHix.

For more details about mixing and application, download the full brochure at profilegolf.com/aquaphix.



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