

What are Nanobubbles?

Nanobubbles are 2000 times smaller than a grain of salt, invisible to the naked eye, but with the power to transform the way gasses are delivered to where they are needed most. Nanobubbles are the most energy-efficient method of transferring gasses into a liquid. This technology is being used across all industries to deliver oxygen, ozone, carbon dioxide, and other gasses in an efficient and economical way.

Unlike conventional bubbles, Nanobubbles do not float, they are not buoyant. Instead, nanobubbles migrate throughout the liquid they are in, gradually releasing their gas for weeks after initial injection. The bubbles also repel one another, so they do not coalesce into larger bubbles. When the bubbles finally release their gas, they implode with a brief, intense energy that creates a beneficial reaction.

Nanobubbles lower aeration costs by up to 75%, reducing capital expenditures and driving down operating expense.



Flotation Boost

Improved recovery of suspended ultrafine and sometimes coarse particles.



Oxidation Boost

Long lasting oxygenation disperses bubbles throughout an entire water body.



Environmental Impacts

Natural processes minimize or eliminate the need for added chemicals.

Mining

Water Treatment

Irrigation

Pool and Spa

Oil and Gas

Pharmaceutical/
Biotech

Food and Beverage

Aquaculture

Land and Pond
Restoration

Irrigation Done Better with Nanobubble Technology

Water is essential to healthy crops, and the quality of irrigation water matters. Nanobubble technology presents a natural, chemical-free method for introducing oxygen-rich water to plants when and where they need it most. Adding nanobubble oxygen to irrigation processes allows plants to absorb more nutrients and reduces pathogenic diseases. Stronger root systems. Healthier plants. Better yields.



Improve Nutrient Absorption

Introducing more oxygen to crops through nanobubbles decreases the effect of salinity in soils and water and improves root systems' ability to intake nutrients.

Reduce Pathogenic Diseases

Nanobubble technology keeps water healthy and active, effectively reducing the spread of pathogenic diseases such as pythium, fusarium, verticillium and phytophthora.



Reduce Buildup in Irrigation Lines

Nanobubbles are always moving on a microscopic scale, which effectively discourages mineral scale and buildup from forming and eliminates the need for harsh chemical cleaners.