

Neoteric Water Solution Inc.

The Oxygenation of Water

There are several methods used in the attempt to oxygenate water. The three (3) that are commonly used are pressurization, by chemically reaction; or electrolysis. Pressurizing oxygen into water is an injection method much as soda pop is injected with carbon. This is a quick and simple process, but the injected oxygen is unstable and will evaporate to low levels in a matter of minutes.

Chemical reaction is also a quick and simple method of oxygenation water, but the treated product will have the chemical contaminants left in the water.

Electrolysis is a difficult process and up to date, did not have great results in attaining high oxygen levels. Now, however, with Neoteric's Revolutionary Technical Advances, a very high degree of oxygenation can be achieved in water with this process and very significantly it is *dissolved oxygen*. The fact that the oxygen is in a dissolved state enhances the stability of the oxygen to a much greater extent. Left exposed to the air, the diminishing process will take 3 to 4 days, depending on the volume, before the newly introduced oxygen is gone. If treatment is continuous, the oxygen, even if exposed, will remain in the water. If the oxygenated water is contained and sealed, the oxygen will last indefinitely. Fortunately, this new technology can be done very economically and with no contaminant left in the water.

The Neoteric process produces water with oxygen content as high as 22 parts per million, over 50% of the dissolved gasses.

The process alters the make up of the water. Water has two hydrogen atoms; these are very small and 1 oxygen atom 16 times larger. The Neoteric treating process forces added oxygen into the water creating high levels of dissolved oxygen replacing some of the gassed off hydrogen. The hydrogen is piggyback on an oxygen atom and carried out of the water and replacing by more dissolved oxygen. Virtually, no water is lost in this efficient process and very little power is needed. The electrical flow is the only thing added to the water, and it does not leave the electrolysis cell.

Oxygen is known as the great purifier, healer, cleaner, and health giver. It is paramount to the Neoteric process. But add the fact that any heavy metals coagulate in the process settle to the bottom of the tank and are removed, chemicals break up and gas off, yet the minerals needed in water remain. You have the perfect water treatment system.

Generally, water has some measure of oxygen in it. The amount of dissolved oxygen in the water is one of the measures determining its safety for consumption. By adding dissolved oxygen, water is made a better safer product.

Oxygen in water is a natural bactericide that kills anaerobic bacteria. Neoteric's water is oxygen saturated to the point it overdose aerobic bacteria killing it as well.

Add the dimensions that highly oxygenated water gives significant health benefits and a better taste to the water, which encourages more consumption, which in turn accelerates the benefits oxygenated water, has to offer.

Oxygen and carbon dioxide differ in taste. Carbon dioxide is added to soda pop to give it zip and bubbles, but it has a bitter taste that is masked in sodas with sugar to give it the sweet taste. In beer, the alcohol diminishes the bitter taste of carbon. The taste of carbon dioxide is revealed in carbonated or seltzer water. Oxygen gives the water a supple palatable sweet taste.

To measure the amount of dissolved oxygen in water, two methods are used, chemical and electronic. With the chemical measuring method, a chemical is added to the water sample to stabilize its make up. The second chemical then changes the coloring. The final color indicates the amount of oxygen in the water.

The electronic test has an electronic probe that is placed in the water sample and the dissolved oxygen is registered on the meter.

The ambient temperature has a significant effect on the amount of oxygen in water. The higher the temperature, the *less* the oxygen saturation point is. Normal water highest amount to oxygen at 30 degree centigrade is 7p.p.m. Neoteric produced water can be as high as 22 p.p.m. This is accomplished by the oxygen forced into the water out gassing some of the nitrogen, and carbons changing the balance of the total dissolved gas.

The normal balance in fully oxygen-saturated in any water is approximately 20% oxygen and 80% nitrogen. At a temperature of 30 degrees centigrade, Neoteric' s water being 22 parts per million, has over three times the amount of oxygen of the best-untreated and most all treated water. The gas balance is now 60 % oxygen versus 40 % nitrogen.

That is the amazing results of Neoteric' s treated water.