

UNDERSTANDING THE POWER OF OZONE

HOW ON EARTH CAN PLAIN TAP WATER INFUSED WITH OZONE BE MORE POWERFUL THAN CHEMICALS SUCH AS HYDROGEN PEROXIDE?

OZONE (O₃) is a triatomic form of Oxygen (O₂) which has 3 atoms, unlike stable oxygen that only has 2 atoms. Oxidizing agents work within the sphere of their molecular composition. The oxidizing potential of chemical alternatives, as shown below, is limited compared to ozone.

Ozone is different because the loosely bonded third oxygen atom will break free and attack a virus or pathogen with extreme force. This oxygen atom detaches itself from the ozone molecule and reattaches itself to the virus or pathogen.

Disinfection and sterilization is achieved by oxidation and ozone's loosely bonded oxygen atom has an unsurpassed disinfection capability.

OXIDIZATION POTENTIAL

OXIDANT

Ozone, (O ₃)	2.07
Hydrogen Peroxide, (H ₂ O ₂)	1.78
Potassium Permanganate, (KMnO ₄)	1.7
Chlorine Dioxide, (ClO ₂)	1.57
Chlorine gas, (Cl ₂)	1.36
Oxygen, (O ₂)	1.23
Bromine	1.09
Hypochlorous Acid, (HOCl)	0.95
Sodium Hypochlorite, (NaOCl)	0.94
Iodine	0.54

COVID-19 CELL STRUCTURE

Covid-19 is a spherical or pleomorphic enveloped particle containing single-stranded (positive-sense) RNA associated with a nucleoprotein within a capsid comprised of matrix protein. The envelope bears club-shaped glycoprotein projections. Some coronaviruses also contain a hemagglutinin-esterase protein.

Ozone destroys these viruses by diffusing through the protein coat into the nucleic acid core resulting in the destruction of the viral RNA.

WHAT MAKES OZONE SO SPECIAL

- While ozone is being generated, ozone intensity will retain its full strength.
- When ozone generation is stopped ozone will revert back to (O₂) oxygen after approximately 20 minutes. At this stage water or air reverts back to its original state with no chemical residue.
- Chlorine, for example, produces dangerous by-products such as dioxins that are produced when chlorine reacts with the organic matter found in water. These by-products are known carcinogens which are monitored by the U.S. Environmental Protection Agency (EPA)
- Ozone is the most powerful broad-spectrum microbiological control agent available.
- Ozone infuses water thereby eliminating the cost and danger of chemical usage.
- Ozone is FREE
- Ozone is clean and environmentally friendly; its only by-product is oxygen.
- Ozone is extremely effective as a disinfectant at relatively low concentrations.
- Ozone offers REAL PROTECTION as pathogens often mutate to resist disinfection. Due to the oxidation power of ozone there is no mechanism for pathogens such as Covid-19 and Norovirus to create immunity to ozone as with other chemical disinfectants and biocides.