

Comparison between Genclean and Chlorine

GWT Genclean has more than two times the oxidation potential and effectiveness of chlorine (bleach) and chlorine based disinfectant products.

CHLORINE

- It is very sensitive to PH. At a pH of 7.5 it has already lost 50% of its oxidative potential.
- Forms toxic disinfection byproduct compounds.
- Its residual activity can be limited.
- It cannot remove the biological film (biofilm) effectively.
- Chlorine is not effective against some pathogens including Giardia cysts and Cryptosporidium parasites.
- The disinfection capacity against bacteria and viruses is moderate.
- Some of the compounds that it forms in the presence of organic matter may be carcinogenic.
- It is not very stable. It loses 10% of disinfecting activity every month.
- Chlorine is very corrosive and in an acidic pH condition, it can affect the equipment or piping based on the application.

GENCLEAN^(TM)

- It is not sensitive to PH.
- Does not produce toxic compounds.
- It has more residual activity than chlorine.
- Removes and controls the biological film.
- Pathogens cannot create resistance.
- It is an excellent disinfectant. It has a greater oxidizing potential than chlorine.
- It can reduce the levels of chlorine and the compounds it forms.
- Stability studies showed that after one year of storage it retains 98% of effectiveness as an oxidant.
- It is less corrosive than chlorine. In swimming pools it does not irritate the skin or the eyes.
- It acts as a micro-flocculant and facilitates the elimination of minerals such as iron, sulfide and manganese
- Precipitates heavy metals.

- Genclean^(tm) requires significantly less solution dosage to obtain the oxidation/disinfection capability of chlorine. This equates to a small space required for storage and the optimization of transportation costs.
- Genclean^(tm) can be stored for a longer period than chlorine without loss of disinfection/oxidation strength.
- Genclean^(tm) does not require specialized technical staff because it is easy to use.
- Genclean^(tm) is more economical than Chlorine in the disinfection of surfaces, air, equipment, and for the treatment of water & wastewater.



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