

NIPRO

CLFine

Ionless Hypochlorous Acid Water



Prevention for airborne bacteria and viruses

Effective chloride concentration 40±10ppm

Less than NaCl 10mg/L

pH 5.0 ~ 6.5

Using the technology cultivated in the medical field for many years,Nipro would like to propose Ionless[™] Hypochlorous Water that will disinfect and reduce indoor airborne bacteria.

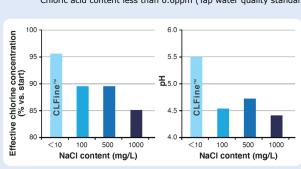
*Ionless

Less than NaCl10mg/L and total amount of ions other than NaCl of 15 mg/L or less (Nipro standard)

Ionless[™] Hypochlorous Water

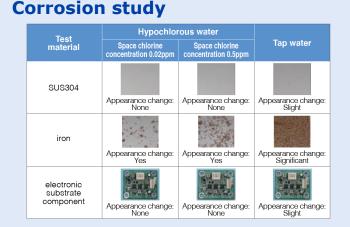
CLFine[™] is made from Japanese Pharmacopoeia sodium chloride and purified water. JIS B 8701:2017 It is manufactured using a dedicated device (three-chamber electrolytic hypochlorous water generator) that complies with hypochlorous water generators, which reduces ions such as NaCl, nitrate ions, and sulfate ions. Water quality also complies with the water quality standards stipulated in the JIS standard.

Stability Storage condition: 40°C - 1 month



Standard : Effective chlorine concentration 40±10ppm (30ppm=65% vs. start) pH 5.0~6.5 Chloric acid content less than 0.6ppm (Tap water quality standards)

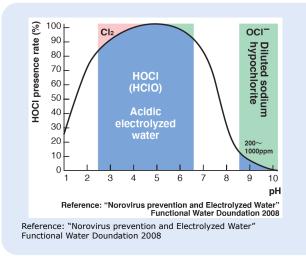
Tested safe for indoor use



Study Facility : JFE Techno-Reseach Corporation Test Method : Accelerated test by doverting JIS C 60068-2-52 CLFine[™] is adjusted to an effective chlorine concentration of 40 ppm and can be used without dilution. Also, the pH was adjusted to slightly acidic, and the effects of metal corrosion and misting on the living body were also confirmed. Regarding the concentration for use, we propose it according to the customer's environment, referring to the standard of chlorine control concentration (0.5 ppm) of the Industrial Safety and Health Act.



Effectiveness of reduction and disinfection of bacteria/virus by hypochlorous water



Acidic electrolyzed water (hypochlorous water) has a higher ratio of hypochlorous acid (HOCI), which is a bactericidal factor than sodium hypochlorite, so it shows high activity at low concentrations. CLFineTM is an ionlessTM (hypochlorous water) with a high hypochlorous acid (HOCI) presence rate adjusted to pH 5.0 to 6.5.

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