

COPPER POWER FOR SALTWATER – TECHNICAL DATA SHEET



Chemical and Physical Characteristics

Odor: Faint
Specific Gravity @ 20 C: 1.12
Color: Clear Blue
Copper (II) Content: 0.5%
pH: 6.2-7.1

COPPER POWER is a strongly coordinated copper medication. It is extremely stable in saltwater, with a very low rate of precipitation – 0.01mg/1/24 hr. This compared favorably to citrated, EDTA chelated, or unchelated copper medications previously available.

Because COPPER POWER precipitates at such a low rate, a copper precipitate mucus does not form to clog the gill filaments of marine animals. For this reason, COPPER POWER is approximately 60 times less toxic to marine fish than other currently available copper medications.

It is theorized that the mechanism by which COPPER POWER kills disease organisms is due to the destruction of the disulfide protein bonds. Although the copper in COPPER POWER is highly chemically bonded, the disulfide bonds of the proteins of many disease organisms have greater affinity. Thus, the copper of COPPER POWER is released and is subsequently attracted to the disulfide bonds of the disease. Hence, the metabolism of the parasitic organism is disrupted and it dies.

Since COPPER POWER is relatively non-toxic to marine fish, much higher concentrations of copper can be applied to a water system with several immediate advantages.

1. When COPPER POWER is used at 2.5 ppm Copper, parasitic infestations can be cured much faster than with conventional forms of copper medications at 0.5 ppm.
2. Since high concentrations of copper can be applied, diseases which previously have not responded to treatment with copper, such as some forms of fungus, can now be cured with COPPER POWER.
3. COPPER POWER can represent a substantial savings to those who use copper on a regular basis. Because of COPPER POWER's extremely low rate of precipitation, it does not have to be constantly reapplied in order to be effective. One application of COPPER POWER remains at an active level in the water for months.

COPPER POWER and COPPER POWER GREEN may be consumed at a much higher rate when actively combating disease organisms.

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