

PRODUCT BRIEF • WATER TREATMENT

DZ 9966: A Leading Algaecide & Biocide

An EPA-registered oxidant that eliminates algae and biofilm at low dosage — achieving a 6-log kill in 10 seconds where chlorine needs 30+ minutes.

Our EPA-registered algaecide improves water quality across countless applications. In study after study, DZ 9966 has delivered remarkable results eliminating algae and biofilm formations.

ORP (oxidation-reduction potential) is a key measure for killing bacteria and pathogens. The World Health Organization states that for water to be safe from all microorganisms, it must hold an ORP above +700 mV. Chlorine — the common choice for algae and biofilm — takes over 30 minutes to achieve a 4-log removal, per EPA studies. At +700 mV, DZ 9966 achieves a **6-log removal in just 10 seconds** and removes biofilm, using a significantly lower volume of chemical.

OXIDATION POTENTIAL (E°)	
REAGENT	VOLTS
DZ 9966	2.8–2.9
Ozone	2.07
Chlorine Dioxide	1.57
Hypochlorite	0.94
Higher voltage = greater oxidative power. DZ 9966 leads the field.	

— Case 1 — algae-laden plant influent (California)

Algae-infested influent water from a California treatment plant was treated with DZ 9966 at 10 ppm — more than enough for the desired result.



BEFORE DZ 9966



AFTER DZ 9966

— Case 2 — potable-water clarifiers (California)

At another facility, biofilm and algae were causing unwanted buildup in a potable-water plant's clarifiers. The water was sampled, the required dosage was determined, and DZ 9966 feed began. The results impressed the plant operator.



BEFORE DZ 9966



AFTER DZ 9966

Beyond removing significant algae and biofilm deposits, the plant saw broad improvements: better filtered-water turbidity, lower chlorine consumption, reduced THM formation, longer filter run times between backwashing, and lower overall treatment cost.

RESULTS AT THE POTABLE-WATER PLANT

Improved filtered-water turbidity • lower chlorine use • reduced THM formation • longer filter runs • lower treatment cost.

EPA FIFRA Registered

6-Log Kill in 10 sec

Low Dosage

Interested in our chemistry? Visit www.dz-worldwide.com or reach us at www.dz-worldwide.com/contact.