

BlueTrace™ - Advanced Product Dosage Control

Simple, Low Cost Product Control Technology for Cooling Towers

MB 0411

What's In Your Cooling Tower??

The answer to this question is use of **BlueTrace** for testing and control of cooling water treatment products.

ProChemTech International has developed and patented* a new tracer technology for control of cooling water treatment products; **BlueTrace**.



BlueTrace was developed to replace molybdate use as a control tracer and compete directly with the "TRASER" technology marketed by EcoLab/Nalco. As part of the **BlueTrace** development program, an inexpensive dedicated wavelength spectrophotometer was developed for quick, accurate, and inexpensive field testing of the **BlueTrace** colorant. Accurate control testing is needed to prevent over treatment, increasing costs and the potential for corrosion or under treatment, resulting in a scaled system.

Shown above is a BlueTrace field test unit with a blank, lower control limit (0.04 abs), and upper control limit (0.08 abs) water samples for testing. This inexpensive laser diode spectrophotometer provides for simple, fast, economical, and very accurate determination of **BlueTrace** concentration in the treated water. In the typical 100 to 200 mg/l working range of most cooling water treatments, **BlueTrace** has error limits of just +/- 5 mg/l.

Economics

Continuing purchase of costly test reagents is eliminated with **BlueTrace**, the only cost is the initial spectrometer kit purchase as **no costly chemical reagents are used in the control test procedure**. **BlueTrace** field test units are currently available directly from ProChemTech.

Test Procedure

The test procedure for **BlueTrace** is simplicity itself; turn on the spectrophotometer, blank the unit with a city water sample, place a cooling water sample in the cell, read the absorbance, and multiply by a factor to obtain mg/l of the product in use. With turbid cooling waters, a filtration step is needed to remove interference by suspended solids.

ProChemTech International, Inc.

"Innovation in Water Management"

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* US Patent 7,932,091