

ADVANCE ANALYTIK

REVOLUTIONIZING ONLINE MONITORING SOLUTIONS



OPTICS 1000 - PHOSPHATE

PHOSPHATE HIGH RANGE (PO_4^{3-})

www.advanceanalytik.com
sales@advanceanalytik.com

Optics 1000 Series

PHOSPHATE HR (PO₄³⁻)

Method - Colorimetric

After adding the sample into the measurement cell, some reagents are added in order to adjust the solution to the desired conditions (pH, valence's elements, etc.). Then, a blank is done to correct any temperature or turbidity disturbance. Subsequently, a last reagent is added, and it reacts with solution developing a color, which is measured using a correct wavelength. Thanks to the photometer used, the result achieves a great accuracy.



Advantages of the method

The method appears to be specific for phosphate and is especially useful when measuring the higher concentrations of phosphate. Although the complex is yellow in color the autoblanking before the addition of the single reagent compensates for any background yellow color present in the sample. The other obvious advantage is that only a single reagent is used and the quantity of reagent added is very small (1 ml).



Principle of measurement

The method relies upon the direct reaction of phosphate ion to react with the Vanadomolybdate reagent to form a yellow colored complex.

Specifications

RANGE	From 0 to 2ppm / 5ppm / 10ppm / 20ppm / 60ppm. Adjustable higher concentrations with internal dilution.
ACCURACY	±2%
FULL SCALE REPEATABILITY	±2%
RESOLUTION	0,01 ppm
ANALYSIS TIME	around 10 minutes
CALIBRATION	two point
LED WAVELENGTH	435 nm

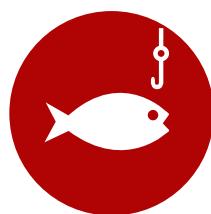
Reagents consumption

- Reagent 1: 0.9 ml / analysis - 0.75L / month

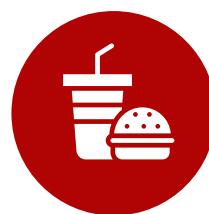
Monthly consumption calculated assuming 1 analysis per hour.



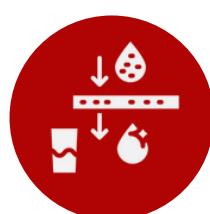
Applications



Fish farming



Food and Beverage



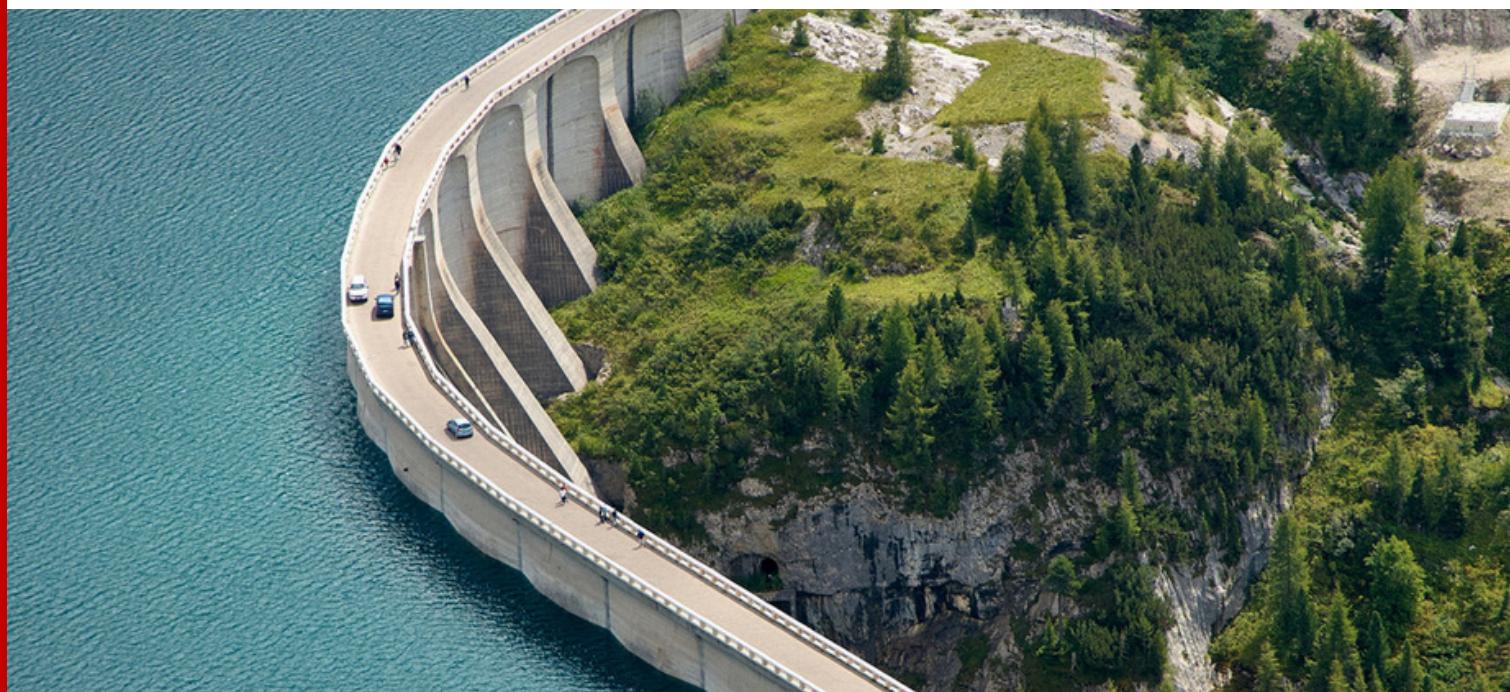
Desalination Plants



Chemical Processing Plants



Textile and Dyeing Industries



Note -

This data sheet serves as general information about the Optics 1000 - Phosphate (HR). For specific technical details, installation guidelines, and troubleshooting assistance, please refer to the official user manual provided with the product.

For inquiries and detailed technical information, please contact sales@advanceanalytik.com.



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works for you



Contact Us :

+36 70328 6862

1132, Budapest Váci ut 16 Faz 12. ajto

<https://advanceanalytik.com>

sales@advanceanalytik.com

