

ADVANCE ANALYTIK

REVOLUTIONIZING ONLINE MONITORING SOLUTIONS



OPTICS-1000 CHROMIUM VI (Cr)

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Optics-1000 Series

Chromium VI (Cr)

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.



Principle of measurement

The chromium (VI) reacts with the diphenylcarbazide reagent to form a pik complex. The reaction is specific for chromium (VI) and there are no interference compounds.

Advantages of the method

The method is very simple, very specific and is very sensitive because of the high absorbance of the diphenylcarbazide-chromium (VI) complex formed.

Optics-1000 Chromium VI (Cr)

Technical Specifications

Basic Specifications	
Range	From 0 to 200 ppb (Adjustable higher concentrations with internal dilution.)
Accuracy	±2%
Repeatability	±2%
Resolution	0,1 ppb
Analysis time	around 10 minutes
Calibration	two point
LED Wavelength	545 nm
Reagents consumption	
Reagent 1	0,8 ml / analysis - 0.75 L / month (Monthly consumption calculated assuming 1 analysis per hour)



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APPLICATIONS



Aquaculture Farms
Maintain Hd levels in fish tanks for optimal aquatic conditions.



Drinking Water Quality
Ensure safe drinking water by monitoring Hd levels in water sources.



Environmental Research
Assess Hd concentrations in water bodies to study pollution and ecosystem health.



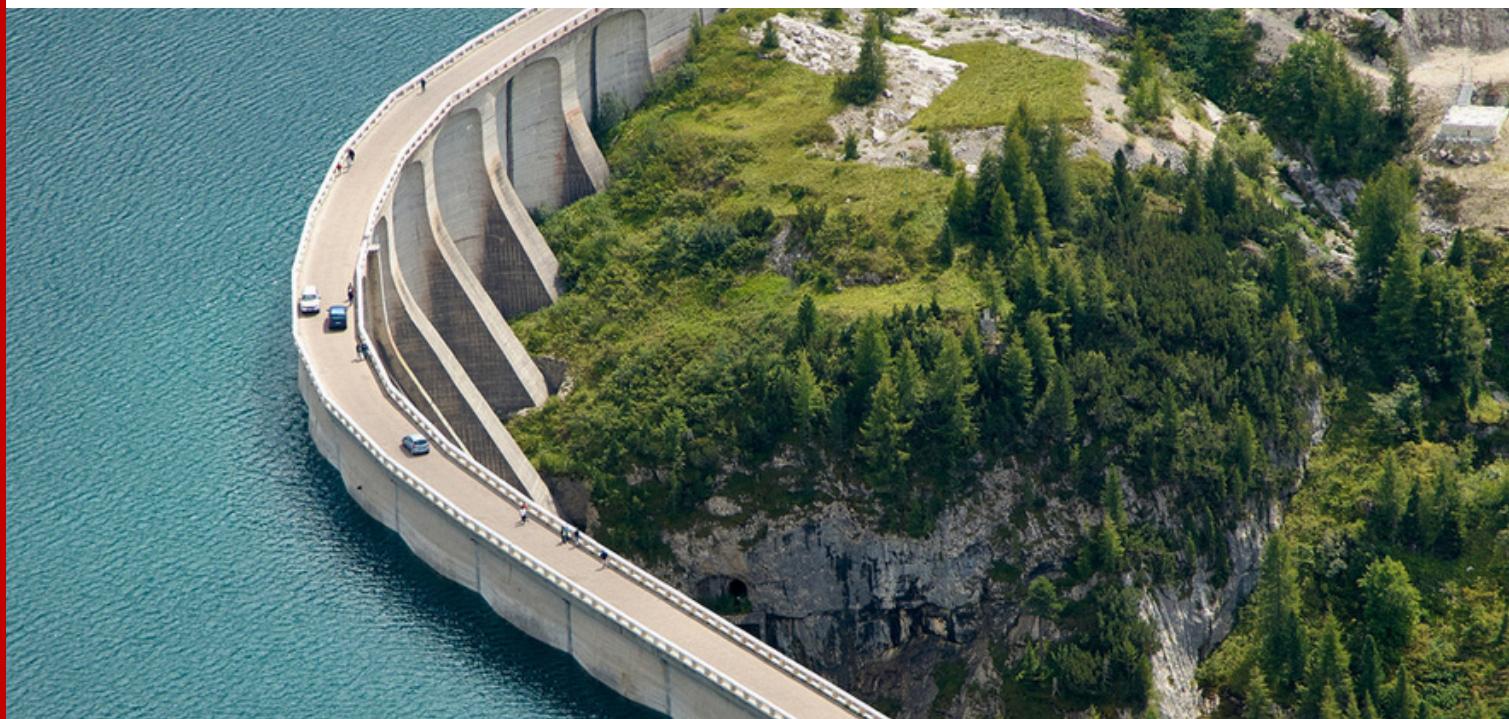
Agriculture and Irrigation
Monitor Hd levels in irrigation water to optimize nutrient supply to crops.



Scientific Laboratories
Conduct Hd analysis for research and educational purposes.



Industrial Processes
Control Hd concentrations in wastewater to meet environmental regulations.



Note -

This data sheet serves as general information about the Optics-1000 Chromium VI (Cr). 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.



LET'S CONNECT !

Let's work together to find a solution that
works for you



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