

Industries & Applications

POWER GENERATION

CHEMetrics is the worldwide leader in colorimetric, low-level Dissolved Oxygen analysis. Additionally, CHEMetrics' products are used throughout the power generation industry to monitor deposit forming and corrosive elements in water, and to monitor biocides and corrosion inhibitors.

Alkalinity	Dissolved Oxygen	Molybdate	Sulfite
Ammonia	Filming Amines	pH	Total Dissolved Solids (TDS)
Chloride	Hardness (total)	Phenols	
Chlorine	Hydrazine	Phosphate	
Conductivity	Hydrogen Peroxide	Silica	
DEHA	Iron	Sulfide	

PETROLEUM REFINING

CHEMetrics' kits are used for wastewater/effluent monitoring and injection water analysis, as well as internal power generation applications such as boiler and cooling water analysis. Leaking underground storage tanks (USTs) can be identified with CHEMetrics' Total Petroleum Hydrocarbons (TPH) in soil test kit—RemediAid.™

Ammonia	Dissolved Oxygen	Phenols	Total Petroleum Hydrocarbons (TPH)
Chloride	Iron	Phosphate	
Chlorine	Iron in Brine	Sulfide	
COD	Molybdate		

CHEMICAL PROCESS

CHEMetrics' kits are widely used for process applications, wastewater and effluent water analysis in textile plants, steel mills, petrochemical plants, chemical plants, electronics manufacturing plants, as well as many others.

Ammonia	Formaldehyde	Molybdate	Sulfite
Chloride	Glycol	Nitrate	Thiosulfate
Chlorine	Hydrogen Peroxide	Permanganate	Zinc
Chlorine Dioxide	Iron	Phenols	
COD	Iron in Brine	Phosphate	
Dissolved Oxygen	Manganese	Sulfide	

WATER TREATMENT

CHEMetrics' kits are used to monitor and help control process water, boiler water, cooling water, as well as for the analysis of wastewater and effluents. In addition, in systems that employ on-line analyzers, CHEMetrics' kits are used for system confirmation, troubleshooting, and in periods of downtime.

Alkalinity	Conductivity	Hydrazine	Phosphate
Aluminum	DEHA	Molybdate	Silica
Ammonia	Dissolved Oxygen	Nitrate	Sulfide
Chloride	Filming Amines	Nitrite	Total Dissolved Solids (TDS)
Chlorine	Glycol	pH	
Chlorine Dioxide	Hardness	Phenols	

ENVIRONMENTAL/EDUCATION

CHEMetrics' kits are used in environmental education, environmental monitoring, site characterization, and remediation programs. Applications include surface water monitoring for nutrient runoff and industrial effluent contamination, groundwater monitoring, and soil monitoring for petroleum hydrocarbon contamination.

Aluminum	Hardness	Total Dissolved Solids (TDS)
Ammonia	Iron	Total Petroleum Hydrocarbons (TPH)
Chloride	Nitrate	
Copper	Nitrite	
Conductivity	Phosphate	Turbidity
Dissolved Oxygen		Zinc

WATER/WASTEWATER

CHEMetrics' products are applicable in both drinking water and wastewater plants. Wastewater treatment plants monitor influent, settling tanks, and effluent waters. Drinking water treatment plants monitor residual disinfectant products.

Aluminum	Chlorine Dioxide	Glycol	Nitrite
Ammonia	COD	Hardness (total)	Phenols
Bromine	Detergents	Iron	Phosphate
Chloride	Dissolved Oxygen	Manganese	Sulfate
Chlorine	Fluoride	Nitrate	Sulfide

PULP AND PAPER

The primary applications for CHEMetrics' products in pulp and paper plants are in boiler/cooling water and wastewater/effluent water treatment. Since water is used in nearly every mill operation, this industry also requires analytical products for processes including bleaching, cooking and washing, pulp processing, and pulp liquor recovery.

Ammonia	Chlorine Dioxide	Molybdate	Phenols
Dissolved Oxygen	Hydrogen Peroxide	Silica	Phosphate
Chlorine	Hydrazine	Peracetic Acid	

FOOD AND BEVERAGE

CHEMetrics' products are used throughout the food and beverage industry in production, packaging, and sanitizing processes. Bottled water plants, breweries, and carbonated beverage facilities test impurities in their production water. Packaging operations use CHEMetrics' kits to verify sterilization and to monitor the efficacy of sterilization solutions.

Ammonia	Chlorine Dioxide	Ozone	Sulfate
Bromine	Dissolved Oxygen	Peracetic Acid	Sulfite
Chlorine	Hydrogen Peroxide	Phosphate	Turbidity

