

NEXTChem Process Analyzers, Inc.

On-Line Cyanide

Industry: Metal Plating and Mining

Sample Filtration is eliminated, in samples with high solids. For samples requiring dilution ≤ 2 mm particles can easily be handled. For non-dilution samples ≤ 6 mm particles pose no problem. No other system can match this rugged design.

NEXTChem Analyzers can provide accuracy only matched by the most precise laboratory equipment. Our reagent precision pumps deliver titrants with ± 0.001 mL reproducibility. Potentiometric analyses are utilized thus eliminating errors caused by electrode drift.



Analysis of Cyanide

Cyanide is determined using an ion selective electrode. The measurement technique used is standard addition.

Reactions:



Reagents:

0.1M silver nitrate, and 0.1 N nitric acid (cleaning agent)

Sensor:

Silver/Sulfide Ion Selective Electrode

Detection Limits / Interferences:

Dilution: 91,000 – 18 ppm
Non-Dilution: 500 – 0 ppm (lower detection limit 1 ppm)
Interferences: OH^- , PO_4^{2-} , Br^- , I^- , S^{2-}

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