

NEXTChem Process Analyzers, Inc.

On-Line Silver

Industry: Mining, Metal Finishing and Chemical

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 Silver

Silver is determined by an ion selective electrode. The measurement technique used is standard addition.

Reactions:



Reagents:

1000 ppm Silver Nitrate, 0.1 M Nitric Acid, 5 M Sodium Nitrate

Sensor:

Silver / Sulfide Ion Selective Electrode

Detection Limits / Interferences:

Dilution: 53,950 – 5 ppm

Non-Dilution: 10 – 0 ppm (lower detection limit 0.05 ppm)

Interferences: Hg^{+2} , S^{-2}

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