

NEXTChem Process Analyzers, Inc.

On-Line Hydrogen Peroxide

Industry: Semiconductor, Textile 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 Hydrogen Peroxide

The concentration of Hydrogen Peroxide is determined by a redox titration. Ceric sulfate is the titrant and the endpoint is determined with an ORP electrode.

Reactions:



Reagents:

0.1 N Ceric Sulfate w/ 2N Sulfuric Acid, 1 N Sulfuric Acid

Sensor:

ORP Electrode 120 mm

Detection Limits / Interferences:

Dilution: 119,000 – 23 ppm
Non-Dilution: 226 – 0 ppm (lower detection limit 1 ppm)
Interferences: Other Redox Reagents

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