

# **NEXTChem Process Analyzers, Inc.**

## ***On-Line Ammonia***

### ***Industry: Water/Waste Water and Chemical***

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Sample Filtration is eliminated, in samples with high solids. For samples requiring dilution  $\leq 2$ mm particles can easily be handled. For non-dilution samples  $\leq 6$ 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  $\pm 0.001$  mL reproducibility. Potentiometric analyses are utilized thus eliminating errors caused by electrode drift.



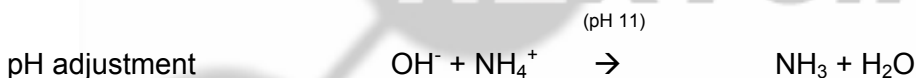
### ***Analysis of Ammonia***

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

### ***Reactions:***

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### ***Reagents:***

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5 M Sodium Hydroxide, 1000 ppm Ammonia Standard (as  $\text{NH}_4\text{Cl}$ ), 2 M Hydrochloric Acid

### ***Sensor:***

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Ammonia ISE Electrode

### ***Detection Limits / Interferences:***

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Dilution: 170,000 – 5 ppm  
Non-Dilution: 40 – 0 ppm (lower detection limit 0.05 ppm)  
Interferences: Hydrazine and other amines, Acetic Acid

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