

# **NEXTChem Process Analyzers, Inc.**

## ***On-Line Nitrite/Accelerator***

### ***Industry: Metal Finishing 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.



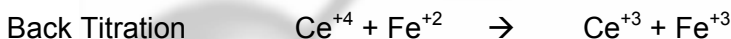
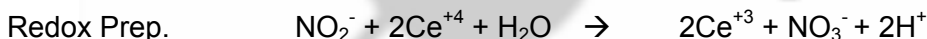
### ***Analysis of Nitrite/Accelerator***

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Nitrite/Accelerator is determined by a redox titration. The back titration of ceric sulfate with ferrous iron is used to determine the concentration of nitrite/accelerator.

#### ***Reactions:***

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#### ***Reagents:***

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

#### ***Sensor:***

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ORP Electrode 120 mm

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

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Dilution: 161,000 – 32 ppm

Non-Dilution: 306 – 0 ppm (lower detection limit 2 ppm)

Interferences: Other Redox Agents

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