

# **NEXTChem Process Analyzers, Inc.**

## ***On-Line Free and Total Acid***

### ***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 Free and Total Acid***

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Free and Total Acid is determined by an acid/base titration. The dual inflection analysis is used to determine the concentration of free and total acid.

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

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

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0.5 N Sodium Hydroxide

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

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Glass pH Electrode 120 mm

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

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Dilution: 140,000 – 28 ppm

Non-Dilution: 266 – 0 ppm (lower detection limit 1 ppm)

Interferences: Other Acids and Bases

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