

# **NEXTChem Process Analyzers, Inc.**

## **On-Line Indigo**

### **Industry: Textile**

Sample Filtration is eliminated, in samples with high solids. For samples requiring dilution  $\leq 2\text{mm}$  particles can easily be handled. For non-dilution samples  $\leq 6\text{mm}$  particles pose no problem. No other system can match this rugged design.

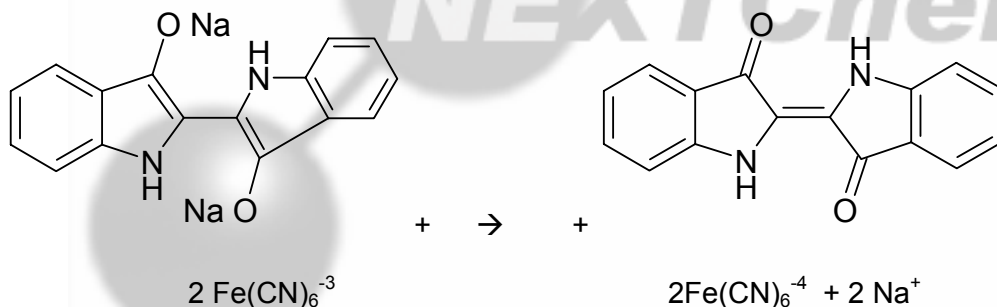
NEXTChem Analyzers can provide accuracy only matched by the most precise laboratory equipment. Our reagent precision pumps deliver titrants with  $\pm 0.001$  mL reproducibility. Potentiometric analyses are utilized thus eliminating errors caused by electrode drift.



### **Analysis of Indigo**

The concentration of Indigo is determined by a redox titration.

### **Reactions:**



### **Reagents:**

5N Sodium Hydroxide, 0.25 M Potassium Ferricyanide, 3% Sodium Hypochlorite (Cleaner)

### **Sensor:**

ORP Electrode 120 mm

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

Dilution: 500,000 – 100 ppm  
Non-Dilution: 1000 – 0 ppm (lower detection limit 5 ppm)  
Interferences: Other Redox Agents

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