1. **Description**

High purity Nickel Acetate is used widely to seal anodic coatings on aluminum. When sealing with nickel acetate alone, a smutty deposit will form on the work. This can be prevented by the addition of a wetting agent such as Specialty Dispersant. Nickel acetate is suitable for sealing dyed or clear anodized aluminum.

- RoHS compliant
- REACH compliant

2. **General formulation**

Nickel Acetate: 4-5 g/l  
Specialty Dispersant: 2-3 g/l  
Benzoic Acid: 1-2 g/l

3. **Application instructions**

- pH: 5.2 - 5.9  
- Temperature: 190-210°F  
- Seal time: 10-25 minutes

4. **Conditions for using Nickel Acetate**

- Tank: Stainless steel or other acid resistant material that can withstand a constant operating temperature of 210°F. Separate seal tanks for clear and dyed work.
- Water quality: Deionized
- pH adjustments: Lower with acetic acid. Raise with dilute ammonium hydroxide. pH should be checked once per shift with a calibrated meter.
- Rinse: Before sealing, a thorough rinse is necessary to remove any foreign substances. After sealing, the work load should be thoroughly rinsed at once before it is dried.
- Filtration: Field experience has shown that continuous filtration through a 5-35 micron filter is beneficial. **Do not use a carbon filter.**
- Sealing time: 2-3 minutes per 0.10 mil. oxide coating thickness.
5. **Titration procedure**

**Reagents:**
- Concentrated ammonium hydroxide
- Murexide indicator
- 0.1 M EDTA

**Procedure:**
1. Pipette 25-ml of working solution into 250 ml flask.
2. Add 200-ml deionized water.
3. Add 10-ml of concentrated ammonium hydroxide
4. Add a pinch of murexide indicator.
5. Titrate with 0.1 M EDTA to a blue/violet endpoint.

**Calculation:**
\[
\text{ml of 0.1 M EDTA x 1.01 = g/l of Nickel Acetate}
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6. **Packaging**

100#

7. **Storage**

Store in original container in a cool dry location. In humid environments, powder may harden.

8. **Product safety**

We recommend that the company/operator read and review the Safety Data Sheet for the appropriate health and safety warnings before use.