



## Nickel Acetate

High Purity

### 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 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. <b>Do not use a carbon filter.</b>
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:      ml of 0.1 M EDTA x 1.01 = **g/l of Nickel Acetate**

## 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.

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