

## Aluminum Etch 25 Aluminum Etchant

### Product Description

Aluminum Etch 25 is an alkaline material which uniformly etches aluminum alloys. Etch 25 minimizes the formation of aluminum scale in tanks and on heating elements.

### Performance Features

- Minimizes Formation of Scale
- Economical - Highly Concentrated
- Capable of Being Used at Wide Range of Operating Parameters

### Physical Specifications

Physical State	Liquid
Appearance	Light Amber
Water Solubility	Complete
pH (1%)	> 13

### Equipment Requirements

TANKS: Tanks and associated equipment should be constructed of mild steel.

AGITATION: Recommended.

VENTILATION: Recommended.

### Product Make-Up

1. Fill tank 2/3 full with deionized water.
2. Add required amount of Seacole Aluminum Etch 25 to the water while stirring.
3. Dilute to volume with deionized water and heat to operating temperature.

### Concentration and Application Methods

#### Concentration

4 - 8% by volume.

#### Temperature

70 - 150°F

#### Time

10 seconds - 10 minutes. Dependant upon water temperature, concentration, and application.

## Technical Data Sheet

### Bath Analysis

Reagents: 1.0 N Sulfuric Acid  
0.5% Phenolphthalein Indicator  
Sodium Fluoride

### Procedure:

1. Pipette 10 ml cooled sample of working solution into 250-ml flask.
2. Add 100 mls of distilled water and 4-5 drops of phenolphthalein indicator.
3. Titrate with 1.0N Sulfuric Acid to a clear endpoint.
4. Record mls of 1.0N acid used as "A".
5. Add 5 grams of Sodium Fluoride.
6. Rezero and continue titration with 1.0N Sulfuric Acid until pink color disappears for 20-30 seconds.
7. Record mls of acid used as "B".

Calculation: %v/v =  $(A-1/3B) \times 0.63$

Total dissolved aluminum (oz/gal) =  $0.25 \times B$

### Companion Products

See Seacole's Metal Finishing product line.

### Safety and Handling

Read and understand this products MSDS before handling.

### Waste Treatment

Individual users should verify the nature of spent solutions to assure compliance with local, state, and federal regulations. Contact Seacole for specific details and/or further waste treatment recommendations.

### Ordering Information

Aluminum Etch 25 is available 55 gallon drums and 330 gallon totes.

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