



# PRODUCT INFORMATION

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EMERGENCY - MARTRON 704-289-1934  
CHEMTREC 800-424-9300

REF. # MFC-005004

## MARTRON ALOX 289

### 1. Description

**Martron ALOX 289** is an easy to use, liquid material designed to deoxidize and de-smut wrought aluminum alloys (1xxx, 2xxx, 3xxx, 5xxx, 6xxx, 7xxx) prior to anodizing, bright dipping or chromating.

Liquid product for easy mixing.  
Exceptional bath life.  
Works at room temperature.  
Improves salt spray protection on chromated aluminum.

### 2. Application Instructions

Concentration: 10-20% by volume  
Temperature: Ambient  
Immersion time: 5-10 minutes  
Agitation: Continuous air agitation required.

### 3. Conditions for Using Martron ALOX 289

Water: Deionized or good quality tap water.  
Tank: Tank and associated equipment should be constructed of 316 stainless steel, high density polypro or other acid resistant material.  
Castings: **Martron ALOX 289** is not recommended for processing castings.

### 4. Solution Make-up

1. Fill tank 2/3 full of water.
2. Add required amount of **Martron ALOX 289** to the water with mild agitation.
3. Add water very slowly to operating level and mix again.

#### WARNING!

To prevent excessive heat generation and spattering, never add water to **Martron ALOX 289**. Always add **Martron ALOX 289** to water. Add small amounts over the entire surface of the solution with mild agitation.

### 5. Titration Procedure

Reagents:            10% potassium iodide indicator solution  
                          0.1 N sodium thiosulfate  
                          0.5% starch indicator solution  
                          50% sulfuric acid

Procedure:           1. Pipette 2-ml of working solution into 100 ml Erlenmeyer flask.  
                          2. Add 50-ml of deionized water.  
                          3. Add 10-ml of 20% potassium iodide, or 20-ml of 10% potassium iodide.  
                          4. Add 5-ml sulfuric acid.  
                          5. Titrate with 0.1 N sodium thiosulfate to a straw color.  
                          6. Add 5-ml 0.5% starch indicator solution, solution will turn dark or muddy.  
                          7. Continue titrating very slowly, drop by drop, until the solution very sharply turns clear.

Calculation:        % by volume of **Martron ALOX 289** = ml of 0.1 N sodium thiosulfate x 3.35

### 6. Storage

Store in original container in a cool dry location.  
Keep away from flammable objects and strong oxidizers.

### 7. Packaging

5 gallons  
55 gallons

### 8. Product Safety

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

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