



## Specialty 982

Deoxidizer

### 1. Description

Specialty 982 is an easy to use, liquid material designed to deoxidize and desmutt 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.
- Highly effective on 2024 and 7075.

### 2. Application instructions

Concentration: 10-20% by volume

Temperature: Ambient

Immersion time: 5-10 minutes

Agitation: Continuous air agitation required.

### 3. Conditions for using Specialty 982

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: Specialty 982 is not recommended for processing castings.

### 4. Solution makeup

1. Fill tank 2/3 full of water.
2. Add required amount of 982 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 Specialty 982. Always add Specialty 982 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 Specialty 982 = 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** for the appropriate health and safety warnings before use.

U.S. Specialty Color Corporation® recommendations, notices or instructions as to handling, use, storage of any product, including its use alone or in combination with other products, or as to any apparatus or process for the use of any product, are based upon information believed to be reliable, but U.S. Specialty Color Corporation® shall have no liability with respect to any recommendations or instructions. U.S. Specialty Color Corporation® sole and exclusive warranty is that its products comply with U.S. Specialty Color Corporation® published chemical and physical specifications. U.S. Specialty Color Corporation® makes no other warranties, other express or implied with respect to its recommendations, instructions, products, apparatus, and process or otherwise and specifically disclaims any implied warranties of merchantability, suitability, fitness for a particular or otherwise.