Deoxidizer SC

Deoxidizer SC is used as a two-part system, for the removal of smuts and oxides after aluminum bright dip operations. It will remove the discoloration from copper oxides after the bright dip process.

Deoxidizer SC must be used in conjunction with Hubbard-Hall product, Acid Salt C. Both products are used for makeup of a new process bath, and for bath maintenance additions.

Features & Benefits

No nitric acid	Non-fuming
No phosphoric acid	No phosphate waste
No fluorides	Safer for operators
No iron compounds	Won't poison anodizing bath

Physical Data

Specific gravity	1.09
Solubility in water	Complete
Appearance and Odor	Clear liquid, slight acidic odor
pH Concentrate	< 2.0

Operating Conditions

Concentration, Part A	10 – 25%, **Deoxidizer SC**
Concentration, Part B	5 – 10 oz/Gal, **Acid Salt C**
Temperature	Ambient
Equipment	Poly tanks preferred, 316 SS
Heater	Titanium

1. Always add Deoxidizer SC slowly to water with good mixing.
2. Use caution as bath temperatures will increase during addition.
3. Allow bath to cool if needed, before addition of Acid Salt C.
4. Add Acid Salt C additions slowly with good mixing until dissolved.
5. Product is designed to run at room temperature.

Note: Contact your Hubbard-Hall technical rep before ever heating the solution.

Titration Method

Deoxidizer SC: Part A

1. Pipette 5 mL of room temperature bath into a 250 mL Erlenmeyer flask.
2. Add 75 mL of deionized water and 5 drops of Methyl Orange indicator.
3. Titrate with 0.1 N Sodium Hydroxide until solution turns yellow.
4. Record mL used.

Calculation

Descaler SC Concentration (typical 10%) = mL 0.1N NaOH x 0.65

Acid Salt C: Part B

1. Pipette 10 mL of room temperature bath into a 250 mL Erlenmeyer flask.
2. Add 75 mL of deionized water, 10 mL of 10% v/v Sulfuric Acid (or 2 mL 50% v/v Sulfuric Acid) and 10 mL of 25% w/w Potassium Iodide solution.
3. Immediately titrate with 0.1 N Sodium Thiosulfate solution until solution turns from dark brown to orange.
4. Add 2 mL of starch indicator solution.
5. Continue titrating until solution turns clear and colorless.
6. Record mL used.

Calculation

Acid Salt C oz/Gal (typical 5 oz/Gal) = mL 0.1N $Na_2S_2O_3$ x 0.234
Acid Salt C g/L (typical 37.4 g/L) = mL 0.1N $Na_2S_2O_3$ x 1.75

Waste Disposal

In order be completely informed on the latest waste disposal regulations for your area, please contact the local authorities.

Caution

Deoxidizer SC contains sulfuric acid, avoid skin, eye and oral contact. Wear protective clothing, facemask, chemical goggles and gloves when handling the product and its made-up solutions. Flush exposed areas immediately with copious amounts of clean, cold water. Contact a doctor immediately in case of injury.

WARRANTY: THE QUALITY OF THIS PRODUCT IS GUARANTEED ON SHIPMENT FROM OUR PLANT. IF THE USE RECOMMENDATIONS ARE FOLLOWED, DESIRED RESULTS WILL BE OBTAINED. SINCE THE USE OF OUR PRODUCTS IS BEYOND OUR CONTROL, NO GUARANTEE EXPRESSED OR IMPLIED IS MADE AS TO THE EFFECTS OF SUCH USE, OR THE RESULTS TO BE OBTAINED.

Our people. Your problem solvers.

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