



AUTOMATED CHEMICAL SOLUTIONS

Chemicals and Controllers for PWB Fabrication

Product Overview

REGENERATOR CC-4428

Acid Etch Replenisher

Product Description

CC-4428 is a highly concentrated sodium chlorate based oxidizer for use with cupric chloride etching processes. Our ready-to-use, liquid formulation provides the safest, most stable oxidizer to handle. Proprietary rate enhancers afford substantially increased etch rates over generic sodium chlorate, hydrogen peroxide and chlorine gas. When used in conjunction with the ETCHPRO CC-4000, CC-4428 provides the most consistent, efficient and economical etching process available.

Features

- 💡 High oxidizer normality
- 💡 Rate enhancing additives
- 💡 Ready-to-use, liquid formulation

Benefits

- ⚗️ Increases copper concentration and improves control
- 🔧 Increases etch rate without increasing acid normality
- 🛡️ Safer, more stable and easier to handle than gaseous or solid oxidizers

Physical Properties

Concentration:	28% by weight sodium chlorate
Specific gravity:	1.23
pH:	6-8
Appearance:	clear, water white to pale yellow
Freezing point:	<40 °F

Typical Operating Parameters

Copper loading:	20 – 30 oz/gal (150 – 225 g/L)
Free acid normality:	0.5 – 3.0 N
ORP mV:	450 – 650 mV
Temperature:	120 °F – 140 °F

Safety

CAUTION! CC-4405 is a strong oxidizer. Do not allow to contact strong acids or combustible materials. Avoid contact with eyes, skin and clothing. Wear chemical handler's gloves, goggles and protective clothing when handling. Do not allow to dry on clothing. Remove and wash contaminated clothing immediately. Read and understand Material Safety Data Sheet before using this product.

Notice

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