

# **COLCLEAN ELECTRO 331**

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# **COLCLEAN ELECTRO 331**

#### HEAVY DUTY ALKALINE ELECTROCLEANER

COLCLEAN ELECTRO 331 is a free-flowing granular blend of cleaning agents, builders, and

surfactants

COLCLEAN ELECTRO 331 multi-metal electrocleaner for copper, brass, and ferrous substrates.

COLCLEAN ELECTRO 331 excellent detergency and emulsifying properties.

COLCLEAN ELECTRO 331 Phosphate-free formulation with built in chrome reducer.

### OPERATING PARAMETERS

	<u>Time</u>	Concentration	<u>Temperature</u>	Current Density
Cuprous Alloys (Direct)	0.5 - 2 min	4 -6 opg	120 - 180° F	10 - 30 ASF
Cuprous Alloys (Reverse)	5 - 15 sec	4 - 6 opg	121 - 180° F	11 - 30 ASF
Steel (Reverse or Direct)	as needed	7 - 8 opg	160 - 190° F	12 - 40 ASF

Adjust the above conditions to provide optimum results.

#### ANALYTICAL PROCEDURE

- 1. Pipet 10.0mL sample into a 250mL Erlenmeyer flask.
- 2. Add 3 drops phenolphthalein.
- 3. Titrate with 1.0N HCl to color change from pink to clear.

Concentration (opg or % by volume) = mL Titrant · 1.07

#### HANDLING & STORAGE

Columbia Chemical recommends referring to the specific product Safety Data Sheets for safety, handling, and storage precautions.

## **NON-WARRANTY**

The data contained in this bulletin is believed by Columbia Chemical Corp. to be accurate, true, and complete. Since, however, final methods of use of this product are in the hands of the customer and beyond our control, we cannot guarantee that the customer will obtain the results described in this bulletin, nor can we assume responsibility of the use of this product by the customer in any process which may infringe the patents of third parties.