



1000 Western Drive
 Brunswick, OH 44212
 PHONE: 330/225-3200
 FAX: 330/225-1499
 www.columbiachemical.com

COLCLEAN ELECTRO 200

TECHNICAL DATA
 6-8-2020

COLCLEAN ELECTRO 200 MEDIUM ALKALINE ELECTROCLEANER

- COLCLEAN ELECTRO 200 is a medium alkaline compound that is used when non-foam conditions are desired.
- COLCLEAN ELECTRO 200 is an excellent choice for use on steel and may be utilized for softer metals like copper and brass.
- COLCLEAN ELECTRO 200 is buffered, and free rinsing. It can be used between copper and nickel plating to remove copper solution residues.

OPERATING PARAMETERS

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

Adjust the above conditions to provide optimum results.

ANALYTICAL PROCEDURE

1. Pipette a 10.0 mL sample into a 250mL Erlenmeyer flask diluted with 25 mL's of distilled water.
2. Add 5 drops phenolphthalein indicator.
3. Titrate with 1 N HCl to color change from pink to clear.
4. Number of mLs of 1 N HCl required x 0.8 = ounce/gallon concentration of the COLCLEAN ELECTRO 200 working solution. (opg x 7.5 = g/l)

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.

