



# COLCLEAN SOAK 277 LE

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

## COLCLEAN SOAK 277 LE HEAVY DUTY SOAK/SPRAY CLEANER

COLCLEAN SOAK 277 LE is a liquid cleaner for copper and ferrous metals.

COLCLEAN SOAK 277 LE is not chelated and contains builders and surfactants that readily remove oils, drawing, and buffing compounds even at low temperatures.

### OPERATING PARAMETERS

Equipment:	Mild steel tank
Concentration:	5 - 25% by volume (15% optimum)
Temperature:	140 - 185° F
Time of Immersion:	5 - 10 minutes

Adjust these conditions as required depending on soil conditions.

### ANALYTICAL PROCEDURE

1. Pipette a 10 ml sample of the COLCLEAN SOAK 277 LE work solution and transfer to a titrating flask.
2. Add 5 drops phenolphthalein indicator solution.
3. Titrate with 1 N HCl from pink to a colorless endpoint.

CALCULATION: # of mLs 1 N HCl required x 2.70 = % by volume of COLCLEAN SOAK 277 LE

### 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.

