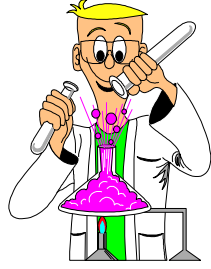


Howard Supply Company, Inc.



TECHNICAL BULLETIN HS #27 Aluminum Soak Cleaner

This cleaner is designed as a non-silicated, non-etch cleaner for aluminum. It is excellent for cleaning aluminum prior to etching, anodizing, bright dip operations or electroplating. HS #27 is particularly recommended for the cleaning of unbuffered aluminum stock in cases where the film left by silicated cleaners causes problems in subsequent etching or bright dip operations. This product has an extremely high capacity for grease and oil contamination. Soils are emulsified rapidly and completely so that recontamination of work upon removal from solution does not occur. Minimum carryover to succeeding tanks is assured because of excellent draining and rinsing properties.

Procedure:

Concentration.....6-10 O.P.G.

Temperature.....120-165 Degrees F.

Time.....1-5 Minutes

Agitation.....Air or mechanical helpful but not necessary

Note: Temperatures in excess of 160 degrees F. may have a tendency to dull buffed aluminum surfaces.

HS #27 is off-white in color, granular, and dust-free. It will not cake under normal conditions, and is readily soluble in warm water.