

# ALPHA® NICKEL WET NO. 994

**Industrial Chemical for Nickel Surface Treatment** 

## **DESCRIPTION**

**ALPHA Nickel Wet No. 994** is a presoldering nickel and nickel alloy surface conditioner. It is a fumeless aqueous solution containing an effective etching agent designed to restore the solderability of tarnished nickel and nickel alloy surfaces. This acid solution should be applied at room temperature. The suggested immersion time is relatively short, approximately 20 to 30 seconds. Longer periods of immersion or elevated temperatures have been found to be helpful in removing heavily scaled nickel surfaces.

READ ENTIRE TECHNICAL DATA SHEET BEFORE USING THIS PRODUCT

#### **FEATURES AND BENEFITS**

ALPHA Nickel Wet No. 994 is designed specifically for use on nickel and tin/nickel plated printed circuit boards as well as component leads composed of nickel, tin/nickel or similar nickel alloys. The product has also been used successfully on structural assemblies, nickel wires, terminals, etc..

#### PRODUCT INFORMATION

Physical StateLiquidDensity at 25 °C (77 °F)1.084 g/ccFlash PointNonepHless than 1ColorLight Green

<u>Lbs. / Gal</u>. 9

Packaging 1 quart, 1 gallon, 5 gallons and 54 gallons

#### **APPLICATION GUIDELINES**

Dipping is the most common method of application even though other methods can be used. ALPHA Reliasolv No. 563 Cleaner and Rosin Flux Remover should be used to dissolve the grease, grime and other contaminants from the printed circuit boards or component leads prior to applying the Nickel Wet. This procedure will prolong the life of the Nickel Wet solution and give more uniform results. Nickel Wet is generally applied at room temperature, however an increase in temperature to approximately 150 °F shortens the immersion time and loosens heavy scale.





# **TECHNICAL BULLETIN**

Since Nickel Wet is an acid, a thorough water rinse is mandatory after use. The recommended procedure for removing #994 includes a quick pass through a nonrecirculating hot water spray followed by either a cold or hot water immersion. The parts are now ready for soldering or storage.

Under ideal conditions activated rosin fluxes may be used for soldering, but generally, Alpha's line or organic acid fluxes are more suitable for use with nickel base alloys.







#### **SAFETY & WARNING**

It is recommended that the company/operator read and review the Safety Data Sheets for the appropriate health and safety warnings before use. Safety Data Sheets are available at MacdermidAlpha.com/assembly-solutions/knowledge-base

## **CONTACT INFORMATION**

# To confirm this document is the most recent version, please contact Assembly@MacDermidAlpha.com

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Also read carefully warning and safety information on the Safety Data Sheet. This data sheet contains technical information required for safe and economical operation of this product. READ IT THOROUGHLY PRIOR TO PRODUCT USE . Emergency safety directory assistance: US 1 202 464 2554, Europe + 44 1235 239 670, Asia + 65 3158 1074, Brazil 0800 707 7022 and 0800 172 020, Mexico 01800 002 1400 and (55) 5559 1588

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