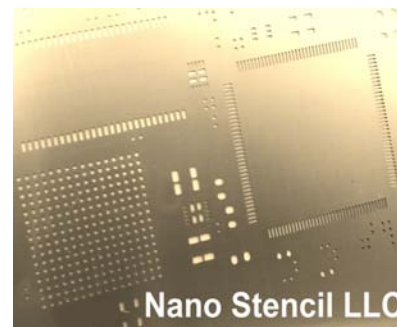


Nano Stencil LLC

31301 Glenbridge Rd., Westlake Village, CA 91361 U.S.A.

Tel: +1(818) 266-4880 • Website: www.NanoStencil.com • E-mail: sales@NanoStencil.com

Made in U.S.A.



TECHNICAL PRODUCT DATA

Nano Stencil Clean™

For **SDS** go to: www.NanoStencil.com

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DESCRIPTION

From the makers of Smart Sonic Stencil Cleaners and 440-R SMT Detergent, Nano Stencil Clean was formulated specifically to safely clean all types of solder paste from nano-coated stencils and misprinted PCBs. Nano Stencil Clean is environmentally safe and user safe with a low pH and nearly zero VOC content. It contains no CFCs, HCFCs, terpenes, alcohol or other hazardous ingredients and performs in ultrasonic, spray or manual cleaning applications. When used in spray equipment, a defoamer agent may be required.

Nano Stencil Clean is RoHS & REACH Compliant.

PHYSICAL PROPERTIES

Appearance:	Straw color liquid
Odor:	Mild
pH (10% solution):	8.3 – 8.9
Flash Point:	None
Foaming:	Low
Rinsing:	Complete
Hard Water Stability:	500 ppm
Biodegradable:	Yes
VOCs	<1% at 10% concentration

APPLICATION

Ultrasonic Machines	5 - 10% - ambient - 90°F (32°C)
For nano coatings applied by stencil manufacturer:	
No-clean Solder Paste	5 - 10% - ambient - 90°F (32°C)
Lead Free Solder Paste	5 - 10% - ambient - 90°F (32°C)
Water Washable (OA)	1 - 5% - ambient - 90°F (32°C)
For manual wipe-on nano coatings:	4 – 6% - ambient temp.
Spray Machines	10 - 15% - ambient - 110°F (43°C) Use defoaming agent as required

Concentration in Plain or DI Water

Nano Stencil Clean is a non-silicated low pH liquid cleaner designed specifically to safely clean all types of solder paste from nano coated stencils and misprinted PCBs. Nano Stencil Clean has a high “loading” factor and can clean dozens of stencils without filtration. Active chemistry life may be extended with standard micron filtration. Bath concentration may be monitored by refractive testing. Consult manufacturer for the appropriate refractive index, For applications other than cleaning solder paste, wash water maintenance will depend on volume, contaminant and filtration system.

Nano Stencil Clean rinses thoroughly with small amounts of clean ambient water. Cleaning applications, other than solder paste, may require a filtration system to reduce “loading” of the bath. Consult factory.

While Nano Stencil Clean will perform well in “hard water” (500 ppm), it is recommended that either soft or DI water be used in order to prevent mineral deposits (water spots) on stencils and ionic contamination on PCBs.

Always “degas” fresh wash solution by running the ultrasonics for 15 minutes without any objects in the bath such as a stencil or parts basket. This procedure need only be performed once after changing bath solution or when adding water and/or cleaning chemistry. Dissolved gases in the wash solution will inhibit proper ultrasonic cavitation.

PRODUCT SAFETY

Materials:	Safe on all metals, plastics and ceramics when used as directed.
Environmental:	Contains less than 1% VOCs at 10% concentration and is biodegradable. RoHS and REACH compliant.
Personnel:	Contains no hazardous ingredients. Consult SDS for complete safety details.
Shelf Life:	The recommended shelf life is two-years for unopened containers that are stored at temperatures between 40 – 110 degrees F. (5 –43 degrees C.) and one-year for open containers.
Caution:	Concentrations greater than 15% and temperatures greater than 100° F (37 C) could be detrimental to the stencil. Always use the lowest concentration and temperature to obtain the desired result.