

Product Bulletin

AQUANOX® XJN-PLUS

Aqueous Spray Cleaner for Electronic Assemblies

FEATURES & BENEFITS

- Mild pH (=/- 10)
- No Sump-Side Adds
- Low Foam
- Multi-Metal Safe
- Water Dilutable
- Free Rinsing
- No HAP's
- EPA SNAP Approved
- Brilliant solder Bumps
- Non-Flammable
- Low Use Cost
- Long Bath Life

AQUANOX XJN-PLUS is a mild aqueous amine blend specially designed for optimum effectiveness on pastes, fluxes, and assembly residues while being relatively people-safe and environmentally friendly. Easy to use, AQUANOX XJN-PLUS is diluted further with water as desired depending on the soils involved. A deionized water rinse is suggested to remove all traces of soil and cleaner residues following the wash stage. AQUANOX XJN-PLUS needs no sump-side adds and leaves solder joints brilliant.



TYPICAL SOILS

- No Clean Flux
- RMA Flux
- OA Paste
- Tacky Flux
- Lead-Free Paste
- Oils
- Finger Prints
- Assembly Residues

**BRILLIANT
SOLDER JOINTS!**

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KYZEN
CORPORATION

www.kyzen.com

Typical Physical and Chemical Properties:

Appearance	Clear amber liquid	pH 100%	9.5-10.5
Odor	Mild /low	pH 30%	9.2-10.2
Specific Gravity	1.06-1.08	VOC, 100%	731.3 g/L
Weight/gallon	8.92 #	VP of VOC Comp.	0.20 mmHg at 20 °C
Flash Point, °F/°C	None to boiling	Water Solubility	Miscible
Boiling Point, °F/°C	230/110		

Suggested Process Parameters: * Optimum Process

<u>Process Type</u>	<u>Concentration Range</u>	<u>Temperature Range</u>	<u>Rinse/Dry</u>
Spray; In-line *	10-30%	120-160 °F	DI/Air
Spray; Batch *	10-30%	120-160 °F	DI/Air
Spray, Stencil	20-30%	105.-120 °F	DI/Air
Immersion, Soak	10-100%	amb.-160 °F	DI/Air
Immersion, Ultrasonics	10-100%	amb.-160 °F	DI/Air
Manual Wipe	100%	ambient	Optional

The above conditions are meant to be starting ranges. Process parameters may be increased or decreased as needed depending on the specific parts and soils involved. Your Kyzen Sales Representative can assist you in optimizing your process parameters.

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Compatibility:

AQUANOX XJN-PLUS is multi-metal safe for use on yellow metals, aluminum, ferrous and composites in addition to most precious metals. It is safe to use with PVDF, Kalrez®, Teflon and ceramic elastomers and filters, while it is best used in polypropylene or stainless equipment.

Hints for Successful Use:

- Performance is optimum at 130-145 °F. Do not exceed 40% concentration of XJN to insure non-flammability.
- AQUANOX XJN-PLUS should be used as a spray cleaner for optimum effectiveness.
- For a mirror finish on your solder bumps, rinse with deionized (DI) or reverse osmosis (RO) water.
- Dry parts with hot or circulating air.
- Concentration, temperature and time should be optimized for the parts and equipment involved.
- Proper ventilation is recommended to maintain a vapor free work area.

Rinsing and Drying:

- Use deionized (DI) or reverse osmosis (RO) water to minimize dendritic growth.
- Keep rinses fresh, monitoring by conductivity or resistivity. Recycle.
- Inspect nozzles and equipment regularly. Repair and maintain as needed.

Bath Life:

Bath life studies show high loading capacity. This equates to long tank life, low maintenance costs and reduced waste generation and chemical consumption.

Maintenance Methods:

AQUANOX XJN-PLUS concentration should be monitored and maintained on a routine and regular basis depending on tank use. Your Kyzen Representative can assist you with this. Best results are obtained with a Dropper Titration Test Kit available from Kyzen.

Refractive Index is an alternative method for tank monitoring.

Environmental, Health and Safety:

AQUANOX XJN-PLUS is a biodegradable aqueous solution with 731.3 g/L VOC at 100%. It contains no CFC's or HAP's, It is non-flammable and non-corrosive. Refer to the Material Safety Data Sheet for more information.

Storage and Handling:

All ingredients in this product are TSCA listed. It is a non-flammable, non-corrosive liquid containing 2-aminoethanol.

Packaged in polyethylene containers, AQUANOX XJN-PLUS, with the seal unbroken, has a suggested shelf-life of one year.

Availability:

AQUANOX XJN-PLUS is available commercially in one (1) gallon, five (5) gallon and 55 gallon containers.

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