

Product Bulletin

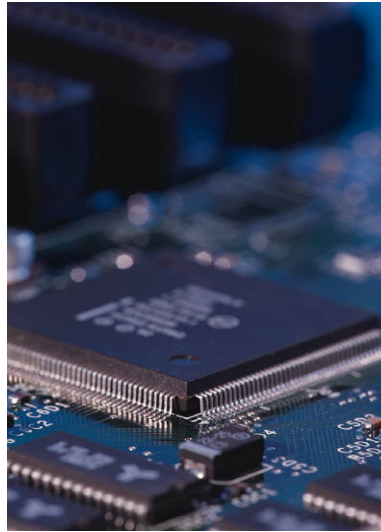
AQUANOX® A4615

Low VOC Aqueous MEA-Free Electronics Cleaner

FEATURES & BENEFITS

- LOW VOC
- MEA-FREE
- NO SUMP-SIDE ADDITIONS NEEDED
- BRILLIANT SOLDER JOINTS
- LOW FOAMING
- MULTI-METAL SAFE
- NO HAP'S
- NON-FLAMMABLE
- LOW USE COST
- LONG BATH LIFE

AQUANOX A4615 is an MEA-free aqueous blend specially designed for optimum effectiveness on pastes, tacky fluxes, rosin flux, no clean flux, lead-free flux and assembly residues while being relatively people-safe and environmentally friendly. Easy to use, A4615 is diluted further with water as desired, or it may be applied as received without damage to delicate substrates if extra cleaning efficiency is needed for more challenging cleaning situations.



TYPICAL SOILS

- Some Lead-free Flux
- Tacky Flux
- Misprinted Paste
- No Clean Flux
- RMA Flux
- OA Paste
- Oils
- Finger Prints
- Light Oxides

Typical Physical and Chemical Properties:

Appearance	Clear amber liquid	pH 100%	11.4-12.4
Odor	Mild	pH 10%	11.3-12.3
Specific Gravity	1.022	VOC, 100%	195.6g/L
Weight/gallon	8.51 #	VOC, 13%	<25 g/L
Flash Point, °F/°C	None to boiling	VP of VOC Comp.	0.04 mmHg at 20 °C
Boiling Point, °F/°C	212/100	Water Solubility	Miscible

Suggested Process Parameters:

Process Type	Concentration Range	Temperature Range	Rinse/Dry
Spray; In-line	5-25%	110-160 °F	DI/Air
Spray; Batch	5-25%	110-160 °F	DI/Air
Immersion, Agitation	5-100%	amb.-130 °F	DI/Air
Immersion, Soak	5-100%	amb.-130 °F	DI/Air
Immersion, Ultrasonics	100%	amb.-120 °F	DI/Air
Manual Wipe	5-100%	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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AQUANOX A4615

Low VOC Aqueous Electronics Cleaner

Compatibility:

AQUANOX A4615 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:

- Effective at all-temperatures, performance is optimum at 110-150 °F.
- AQUANOX A4615 should be used as received (100%) when used with ultrasonics.
- 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.
- Lead-free and high temp. re-flow soils may require higher concentrations for optimum effectiveness.

Rinsing and Drying:

- Use deionized (DI) or reverse osmosis (RO) water to minimize dendritic growth due to water salts.
- 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 A4615 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. Note that some contaminants may interfere with this measurement. Typical factor is 3.6 Brix.

Environmental, Health and Safety:

AQUANOX A4615 is a biodegradable aqueous solution with <25 g/L VOC at 13%. 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.

Packaged in polyethylene containers, AQUANOX A4615, with the seal unbroken, has a suggested shelf-life of one to two years and six months after the seal is broken. Do not store in glass containers.

Availability:

AQUANOX A4615 is available commercially in one (1) gallon, five (5) gallon and 55 gallon containers.

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