



## BOW Liquid Gel Flux

### General Purpose, Flux for Hand Soldering Application

#### Product Description

**Bow Liquid Gel Flux** is a revolutionary, dual purpose product for manual soldering applications, which is a reduced viscosity or liquefied version of our Bow Gel Flux. It promotes excellent solderability for hand soldering and rework applications. Secondly, it can be used as a cleaner to remove rosin and all organic and inorganic residues from electronic assemblies. It smokes less than current products and is a non-hazardous, VOC-Free compound that contains no rosin and is completely water-soluble and water washable.

**Bow Liquid Gel Flux** is compatible with all core solders. In particular, when using rosin core solders, operators can clean post solder residues with water and need no solvents to remove residues. Another radical departure from traditional hand-soldering techniques is the usage of **Bow Liquid Gel Flux** for solder removal, touch-up, device removal and re-attachment. **Bow Liquid Gel Flux** simplifies board repair and touch-up procedures, while promoting excellent solder coverage, shiny joints, and cleaning without using environmentally hazardous solvents.

#### Features and Benefits

- A VOC-Free flux and cleaner.
- Non-halide formulation.
- A water washable cleaner that eliminates the need for organic solvents.
- Compatible with all core solders.
- Completely free of rosins, resins, and petroleum derivatives.
- Non-hazardous and safe to handle.
- Waterless, odorless, non-spattering liquid.

#### Applications

**Bow Liquid Gel Flux** is formulated for use in manual soldering applications for electronic assemblies. Apply flux to the area to being soldered or cleaned. Applying heat using a soldering iron (or other heat source) with a temperature between 315-400°C / 600-750°F is recommended for optimum results. Post-soldering residues are removable, and soluble with water.

#### Physical Properties

Specific Gravity	1.19
Color	Clear Viscous Liquid
pH	1.09 – 2.1
Viscosity	2,000 cpi (@ 20°C / 68°F)
Copper Corrosion (per IPC)	Slight to moderate
Halide Content	None
Rosin Solubility	21.67% by weight
Soldering Range	95 - 320°C / 200 - 600°F
Flash Point	177°C / 350°F
Freezing Effects	None
Residues	Water washable

## **Safety Precautions**

**Bow Liquid Gel Flux** is non-hazardous, non-corrosive and non-flammable. Proper ventilation is required as a precaution during all soldering processes. This product will not separate, harden or crystallize over time and requires no refrigeration. Store at room temperature and keep away from heat.

Refer to Material Safety Data Sheet (MSDS) for additional safety information.

**Bow Liquid Gel Flux** has a two (2) year shelf life.

The information contained herein is based on data consideration to be accurate and is intended for use by persons having technical skills at their own discretion and risk. Since conditions of use are outside of Bow Electronics control, we cannot assume liability for results obtained or damage incurred due to misuse, nor can we assume customer liability.

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