



BOW Flux Gel

General Purpose, Flux for Hand Soldering Application

Product Description

Bow Flux Gel is a revolutionary, dual purpose product for manual soldering applications. First, 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.

Bow Flux Gel 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 Flux Gel** for solder removal, touch-up, device removal and re-attachment. **Bow Flux Gel** 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.
- Formulated for use with tin/lead and lead-free alloys

Applications

Bow Flux Gel is formulated for use in manual soldering applications for electronic assemblies. Apply flux gel 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 water-soluble and should be removed with DI, distilled or RO water.

Physical Properties

Specific Gravity	1.16
Color	Translucent Gel
pH	1.09 – 2.1
Viscosity	1.22 x 10 ⁵ cps (@ 20°C / 68°F)
Copper Corrosion (per IPC)	Slight to moderate
Halide Content	None
Rosin Solubility	33.9% by weight
Soldering Range	60 - 445°C / 140 - 850°F
Flash Point	177°C / 350°F
Freezing Effects	None
Residues	Water washable

Safety Precautions

Bow Flux Gel 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 Flux Gel 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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