

ENVIRO/Flow HAL-40LV

A Non-Foaming, Non-Drying Hot Air Leveling Fusing Flux

Product Description

ENVIRO/Flow HAL-40 LV (HAL-40 LV) is a modified version of HAL-40, exhibiting a slightly lower viscosity to improve copper coverage on very small features. Like its counterpart, HAL-40 LV is designed to assure rapid and complete soldering of printed wiring boards processed through Argus™ vertical hot air leveling equipment. HAL-40 LV will remove light copper oxides, deposit a non-evaporating protective film on the copper to minimize copper reoxidation prior to solder leveling, maximize solder wetting of the copper by reducing the surface tension at the copper/solder interface, and enhance the reflectivity of the solder finish. Additionally, HAL-40 LV will reduce solder adhesion to the laminate and/or soldermask, minimizing solder tailings and/or webbing sometimes encountered during hot air leveling. HAL-40 LV is COMPLETELY water soluble, low foaming, free rinsing, and contains no glycol ethers, solvents, or activators that could attack solder mask or the laminate “buttercoat”.

Performance Features

- HAL-40 LV removes copper oxides and deposits a non-evaporative film over the copper resulting in a stable, clean solderable copper surface.
- HAL-40 LV is a lower viscosity version of HAL-40, to ease flux application on printed circuit boards exhibiting very small features, thereby improve coverage and minimize tailings.
- HAL-40 LV reduces the surface tension at the copper/solder interface resulting in excellent solder coverage and appearance free of solder tailings or solder webbing.
- HAL-40 LV is a low acid formulation minimizing equipment wear.

Physical Specifications

Physical State	Liquid
Appearance	Transparent - Light Amber Solution
Odor	Slight
Freeze/Thaw Stability	Protect From Freezing
Specific Gravity	1.1
Flash Point	>600°F
pH (Neat)	< 2.4

Equipment Requirements

ENVIRO/Flow HAL-40 LV is compatible with all types of plastic, elastomers, and stainless steel employed by standard fluxing equipment. HAL-40 LV is not compatible with mild steel or aluminum.

Technical Data Sheet

Product Make-Up

ENVIRO/Flow HAL-40 LV should be used as received. DO NOT DILUTE WITH WATER OR ALCOHOL.

Operating Parameters

ENVIRO/Flow HAL-40 LV can be applied with a standard flux applicator. It is not necessary to heat ENVIRO/Flow prior to use.

Replenishment

The solution level should be maintained by adding fresh HAL-40 LV solution. The addition of water and/or isopropyl alcohol is not recommended.

Safety and Handling

Read and understand MSDS before using.

Waste Treatment

Individual users should verify the nature of spent solutions to assure compliance with local, state, and federal regulations. Contact Seacole for specific details and/or further waste treatment recommendations.

Ordering Information

ENVIRO/Flow HAL- 40LV is available in 5-gallon pails and 55-gallon drums.

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