



Vantage™ BIOACT™ EC-88 Inline Defluxer Case Study

Company

A multi-national manufacturer of electronic devices

Product

Large-format LED video displays

Product Info

Displays contain 1,000 (up to 30,000) printed circuit boards (PCBs)

Manufacturing Process

PCBs are assembled using water-soluble solder paste

Current Cleaning Process

Following reflow, water-soluble flux residues are removed from PCBs using deionized (DI) water in an aqueous inline cleaning system.

Problem

Customer warranty claims increased, impacting overall profitability. These claims were from premature field failures of the PCB. They determined that this was due to incomplete removal of flux residues and other contaminants coupled with the PCB's exposure to harsh environmental conditions.

Solution

Vantage proposed using **BIOACT™ EC-88 Inline Defluxer** in the current inline cleaning system.

BIOACT EC-88 is a proprietary electronics cleaner and defluxer formulated to remove flux residues and other contaminants such as fingerprints and oils.

Results

The use of **BIOACT EC-88** resulted in a reduction of PCB field failures and subsequent warranty claims.

Other Features

- Removes water-soluble, no-clean, RMA flux residues, and other contaminants during electronic component manufacturing and PCB assembly
- Lower alkalinity (10.1 pH at 10%) and corrosion inhibitors safeguards against attack of solder masks, solder joints, and components
- High flux loading capability
- Does not require defoamer or pH booster additives



When tested against competitive defluxing solutions, BIOACT EC-88 exhibited twice the bath life at half the concentration.

Vantage Performance Materials

A Division of Vantage Specialties Inc.

3938 Porett Drive Gurnee, Illinois 60031 USA

Email: VPMInfo@vantagegrp.com

STTBEC88CS2110