

837LFWS



Lead-Free Water Soluble Flux

837LFWS is a neutral pH at room temperature that becomes highly activated at soldering temperatures. Post-soldering flux residues must be cleaned, but are easily removed with water.

This water soluble liquid flux is designed for wave soldering, surface mount assembly, and through-hole applications. It may be applied by spray, foam, or wave fluxing.

In liquid format, we also offer rosin-based flux, no-clean, halogen-free flux, and lead-free no-clean flux.

For paste flux, visit MG Chemicals' 8341 and 8342.



Features & Benefits

- Water soluble flux for soldering
- Meets IPC J-STD-004B
- For both leaded and lead-free solders
- Excellent wetting and through-hole fill
- Residues are easily removed with water
- RoHS-compliant and VOC-free

Available Packaging

Cat. No.	Packaging	Net Vol.	Net Wt.
837LFWS-1L	Bottle	1 L	846 g

Contact Information

MG Chemicals, 1210 Corporate Drive
Burlington, Ontario, Canada L7L 5R6

Email: support@mgchemicals.com

Phone: North America: +(1)800-340-0772

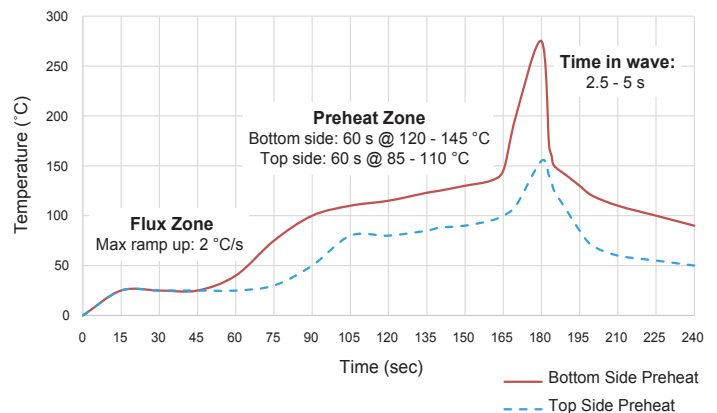
International: +(1) 905-331-1396

Europe: +(44)1663 362888

Properties

Flux Classification	ORH1
Flux Type	Organic
Flux Activity	High
Copper Mirror	Complete removal
Corrosion	Pass
Cleaning Requirements	Required
Halides (by weight)	2.2 %
Surface Insulation Resistance (SIR)	$1.8 \times 10^{10} \Omega$

Typical Lead-Free Wave Solder Profile



Application Instructions

Read the product SDS before using this product (downloadable at www.mgchemicals.com).

1. Apply flux on the surface by dip, spray, foam, or brush application.
2. Clean residue with MG 413B, 413C, 4140, 4050A, or 4140A flux removers.

Wave Solder Operating Parameters

Amount of Flux:

Foam	1000–2000 µg/in ² solids
Spray	750–1500 µg/in ² solids

Foam Fluxing Parameters:

Foam Stone Pore Size	20–50 µm
Flux Level Above Stone	25–40 mm
Chimney Opening	10–13 mm
Air Pressure	1–2 lb/in ²

Top Side Preheat Temp. 85–110 °C

Bottom Side Preheat Temp. 35 °C

Conveyor-speed 1.2– 2.8 m/min

Contact Time in Solder 2.5–4.5 s

Solder Pot Temp.

Sn96.5/Ag3.5	260–276 °C
Sn95/Ag5	280–296 °C
Sn99.3/Cu0.7	265–276 °C
SnAgCu	271–276 °C
Sn95/Sb5	280–296 °C

Foam Flux

- The foam fluxer should be provided with the compressed air
- Flux tank must be always full
- Surface of the flux should be 0.5–1" above the top of the flux aerator or flux stone
- Adjust pressure to optimize foam height with a fine uniform foam head
- After fluxing, use an air knife to remove excess flux from the machine

To check for uniformity of spray flux coating, run a tempered glass plate provided by the machine manufacturer through the flux and preheat zones. Ensure to inspect the glass before the wave zone.

Storage and Handling

Store between 18 and 27 °C in a dry area, away from sunlight (see SDS).

Disclaimer

This information is believed to be accurate. It is intended for professional end-users who have the skills required to evaluate and use the data properly. M.G. Chemicals Ltd. does not guarantee the accuracy of the data and assumes no liability in connection with damages incurred while using it.