

AMTECH

Advanced SMT Solder Products

75 School Ground Road
Branford, CT 06405
Toll free: 800-435-0317
Phone: 203-481-0362
Fax: 203-481-5033
www.amtechsolder.com

An ISO 9001 Certified Company

Product Data Sheet

HAL- 776 Flux (Hot Air Leveling Flux)

Product Description

AMTECH HAL-776 Flux material exhibits high temperature stability and thermal conductivity with complete solubility of residue. The flux is designed for direct use from the container and needs no dilution by any other solvents.

Uses

AMTECH HAL-776 Flux is used in hot air solder leveling machines. This flux can be used on both vertical and horizontal machines.

Advantages

AMTECH HAL-776 Flux exhibits high temperature stability with complete solubility. This flux eliminates the need for use of two fluxes - one for SMD boards and one for mixed technology boards. This flux has very low ionic contamination levels and exhibits the absence of icicling, solder webbing and spiking. Prevents solder skips and inhibits thermal shock during the leveling process. The AMTECH HAL-776 Flux also enhances a uniform coverage of the P.C. board.

Flux Application

AMTECH HAL-776 Flux is typically applied by roller applicators. The flux may also be applied by dipping but allowing excess flux to drain. **The hot air leveling process should be performed as soon as possible after fluxing to eliminate excessive flux drainage from the board**

Physical Properties

Physical State: Viscous liquid
Specific Gravity at 25°C: 1.10 +/- 0.02 @ 60°F
Flash Point (COC): 510°F
Percent Solids: 75%

Thinning

AMTECH HAL-776 Flux requires no thinning or dilution with any other solvents. To be used straight from the container.

Precautions

The AMTECH HAL-776 Flux should be used in adequate ventilation. In case of skin contact, rinse affected area with soap and water. This material is irritating to the eyes and if exposed, flood with water immediately and seek medical attention.

Packaging

5 gallon & 55 gallon drums are available.

Storage

The expected shelf life is at least 12 months when stored in normal conditions.

(continued)

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Technical Details

Physical	Property
Visual examination	Clear liquid
Flux type	"Water-Soluble' Type
Percent Solids	75%
Flow and consistency	Passes
Specific gravity at 60°F	1.10+/-0.02
Dryness Passes	Passes
Ease of residue removal	"Complete" Solubility
Melt/Freeze Point	N/A
Boiling Point	212°F
Vapor Pressure	N/D
Vapor Density	N/D
Odor	Mild
% Volatiles by Volume	30-40
pH (as is)	1.45
pH (1% Solution)	2.90
Performance	Characteristics
Spread factor	>92
Residue after soldering	Tacky

The information contained herein is based on technical data that we believe to be reliable and is intended for use by persons having technical skill, at their own risk. Users of our products should make their own tests to determine the suitability of each product for their particular process. AMTECH will assume no liability for results obtained or damages incurred through the application of the data presented.

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