Fluxometer®
Maximizes Yields and Reduces Rework

FLUXOMETER®

Improve Process Quality - Eliminate guesswork when it comes to managing the consistency of flux application during wave soldering. Ordered in the same width as your WaveRIDER® pallet, the Fluxometer® rides the finger conveyor through the fluxing stage, conveniently and accurately rendering proof of a tuned spray fluxer. So easy to use, operators can perform diagnostic checks in minutes.

www.ecd.com/products/fluxometer

ELECTRONICS  FOOD/BAKING  SOLAR  INDUSTRIAL
Maximize yields and reduce rework by qualifying your spray fluxer pattern uniformity and top-side-penetration.
**TEST MESH**

Built for a long service life, the Mesh is G10 glass epoxy PTH with uniform hole spacing. Superior alternative to using a production PCB with random hole spacing and diameters.

**TEST PAPER**

Special test paper to observe topside board penetration and overall uniformity of flux application.

Kit includes sample pack of 3 paper types. Water-based fluxes use Neutral pH (7 or less) or Low pH (4 or less). IPA test paper is best for alcohol-based fluxes.

**TEST PAPER EXAMPLES**

- **GOOD SIDE TO SIDE UNIFORMITY**
- **GOOD FRONT TO BACK UNIFORMITY**
- **GOOD TOP SIDE PENETRATION & PENETRATION PATTERNS**
- **POOR FLUX COVERAGE**
- **POOR PENETRATION PATTERNS**
- **POOR TOP SIDE PENETRATION**
TEST RESULTS

INSERT THE MESH INTO THE PALLET FRAME, MAKING SURE IT IS FULLY SEATED ONTO THE FRAME SUPPORT.

INSPECT THE MESH HOLES TO MAKE SURE THEY ARE FREE FROM DEBRIS.

LAY THE TEST PAPER ON TOP OF THE MESH. WHEN USING THE IPA TEST PAPER, LAY THE ACTIVE SIDE OF THE PAPER DOWN.

SLOWLY CLOSE THE PAPER COVER AND SECURE BY ROTATING BOTH LATCHES. VISUALLY INSPECT THE PAPER TO MAKE SURE ALL EDGES ARE STILL PROPERLY SEATED ON THE MESH.

FEED THE FLUXOMETER® INTO THE WAVE SOLDER MACHINE, HOLDING IT UNTIL IT IS FIRMLY GRIPPED BY THE CONVEYOR FINGERS.

RETRIEVE THE FLUXOMETER® FROM THE WAVE SOLDER MACHINE. HOLD IT WITH BOTH HANDS, MAKING SURE IT IS AS FLAT AS POSSIBLE SO THE WET FLUX ON THE TEST PAPER DOES NOT RUN.

SET THE FLUXOMETER® ON A FLAT SURFACE. SLOWLY OPEN THE PAPER COVER AND REMOVE THE TEST PAPER. HOLD IT AS FLAT AS POSSIBLE AND LAY THE DRY SIDE OF THE TEST PAPER ON A FLAT SURFACE AND ALLOW TO DRY COMPLETELY. (APPROXIMATELY 10 MIN.)

INSPECT TEST RESULTS: (1) TOP SIDE PENETRATION (2) PENETRATION PATTERNS (3) SIDE TO SIDE UNIFORMITY (4) FRONT TO BACK UNIFORMITY. (SEE THE REVERSE SIDE OF THE QUICK REFERENCE GUIDE FOR EXAMPLES).

PRIOR TO FLUXOMETER® OPERATION, THE SOLDER WAVE PUMP MUST BE TURNED OFF.

WHEN USING THE IPA TEST PAPER, THE PREHEAT MUST BE TURNED OFF AND COOL PRIOR TO FLUXOMETER® OPERATION.

IF THERE IS AN IN-LINE CONVEYOR WASHER, THE FLUXOMETER® TEST PAPER MUST BE REMOVED PRIOR TO ENTERING THE WASHER.

CLEAN THE FLUXOMETER® PALLET FRAME AND MESH PRIOR TO OPERATION. CLEANING IS VERY IMPORTANT SO ACCURATE AND CONSISTANT TEST RESULTS CAN BE ACHIEVED. IT IS RECOMMENDED THAT THE FLUXOMETER™ BE CLEANED USING THE SAME PROCESS THAT OF A NORMAL CIRUCIT BOARD.

USE APPROPRIATE PERSONAL PROTECTION EQUIPMENT.

OPERATION INFORMATION:

P/N: A39-3589-06 REV: 1.1

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QUICK REFERENCE GUIDE

SPECIFICATIONS

PHYSICAL: Fluxometer®

Length: 313 mm [12.32 in.]
Height: 28 mm [1.08 in.]
Thickness, Pallet: 8 mm [0.315 in.]

Width:
- Standard: 229 mm [9"], 305 mm [12"], 381 [15"], 458 mm [18"
- Custom: Contact ECD

Material: Electrostatic dissipative composite

PHYSICAL: MESH & TEST PAPER

Length, Mesh: 216 mm [8.5 in.]
Thickness, Mesh: 1.59 mm [0.063 in.]

Width, Mesh:
- 9": 181 mm [7.14 in.], 12": 257 mm [10.14 in.],
  15": 334 mm [13.14 in.], 18": 410 mm [16.14 in.]
- Custom: Approx 51 mm [2 in.] less than pallet width

Hole Diameter: 0.035 in. [0.889 mm] plated through

Material, Mesh: G10 glass epoxy

Width, Paper:
- 9": 178 mm [7 in.], 12": 254 mm [10 in.],
  15": 330 mm [13 in.], 18": 406 mm [16 in.]
- Custom: Approx 51 mm [2 in.] less than mesh width

Test Paper Type: IPA, Neutral or Low pH Sensitive

PATENT

U.S. PATENT No. 6,321,591

WARRANTY

1 year parts and labor

WEBSITE

www.ecd.com

SYSTEM KITS:

Fluxometer® Standard Systems
- E39-3589-00: 229 mm [9 in.] wide pallet
- E39-3589-02: 305 mm [12 in.] wide pallet
- E39-3589-05: 381 mm [15 in.] wide pallet
- E39-3589-08: 457 mm [18 in.] wide pallet

Fluxometer® Custom System
- E39-3589-12

KITS INCLUDE:

Fluxometer® Pallet
Fluxometer Test Mesh (2)
Test Paper Chart
Test Paper Assortment
- IPA Paper
- Neutral PH Paper
- Low PH Paper

Quick Reference Guide

1 year warranty on materials and workmanship

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1 year parts and labor

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