

QUALITEK®

Delta•Elite™ DSP 818

Solder Paste, Low Residue No-Clean

DESCRIPTION

818 No-clean is a low residue solder paste designed for surface mount and other electronic assembly applications. The unique properties of this formula provide excellent activity, long stencil life, long tack time, high print speed, and a longer shelf life. Post soldering residues are transparent, non-corrosive, non-conductive.

BENEFITS

- Bellcore compliant
- 24 hour stencil life
- Excellent wetting on OSP
- 48 hour tack time
- Prints up to 8 in per sec.
- Low residue
- Air or nitrogen reflow

APPLICATION

STENCIL PRINTING/PARTICLE SIZE

 \geq 50 mil pitch: Use -200+325 mesh \geq 16 mil pitch: Use -325+500 mesh \leq 16 mil pitch: Use -400+635 mesh

ALLOYS

Sn63/Pb37, Sn62/Pb36/Ag2, etc. (Meets J-STD-006 Specification)

METAL CONTENT Stencil Printing: 90% Screen Printing: 88%

REFLOW PROFILE

The melting temperature of the solder and the heat resistance of components determine reflow Profile. 818 can be processed in most reflow media, (i.e. IR, Vapor-phase, Forced convection, etc.). Ramp rate of 2.5-3.0°C per second is desirable, since most components are rated for 4.0°C per second.

PHYSICAL / CHEMICAL CHARACTERISTICS

Color and AppearanceMetallic GrayCopper Mirror TestPass/No breakthroughJ-STD ClassificationROL0Silver Chromate (Chloride & Bromide Test)Pass/No discolorationSurface Insulation Resistance

Viscosity

Malcom¹ 140-200 kcps, 90% metal, (-325+500 mesh) Brookfield² 900 kcps +/- 10%, 90% metal, (-325+500 mesh)

Tack³

Time 48 Hours (22°C, 45% R.H.) Initial tack force 100.2 grams Tack retention after 24 hours 95.6 grams

SHIPPING & STORAGE

Recommended Storage Temperature 35°-50°F

SHELF LIFE

Unopened Container 35°-65°F 6 Months (from DOM)

- 1. Malcom PCU-Series, 10 RPM, 25°C
- 2. Brookfield RVTD, TF spindle, 5 RPM, 25°C,0.75" spindle depth
- 3. Per IPC-TM-650 2.4.44
- 4. Bellcore GR-78-CORE

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Rev: 12-31-07 818 Consult MSDS for health and safety information

818 PROFILE

