



QUALITEK®

DELTA® 670 Solder Paste No-Clean

DESCRIPTION

570 No-clean solder paste is designed for surface mount and other electronic assembly applications. After reflow, a non-corrosive, non-conductive, highly insulated, transparent residue remains.

BENEFITS

- Bellcore compliant
- No cleaning required
- Non-corrosive

APPLICATION

PRINTING / PARTICLE SIZE

- ≥ 50 mil pitch: Use -200 +325 mesh
- ≥ 16 mil pitch: Use -325 +500 mesh
- ≤ 16 mil pitch: Use -400 +635 mesh

ALLOYS

Sn63/Pb37, Sn62/Pb36/Ag2, Sn42/Bi 58, Sn48/In52, 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. 670 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 Appearance	Metallic Gray
Water Extract Resistivity (Flux Extract)	>100,00 ohm/cm
Copper Mirror Test	Pass
Silver Chromate (Chloride & Bromide Test)	Pass
Surface Insulation Resistance-Ohms	
J-STD-004	>1.0 x 10 ¹⁰
Electromigration ³	Pass
pH-5% Aqueous Solution (Flux Extract)	4.2 - 4.7
Softening Point	94°C
Viscosity	
Malcom ¹	175 - 205 kcps. 90% metal, (-325+500 mesh)
Brookfield ²	1,000 kcps +/- 10%. 90% metal, (-325+500 mesh)
Tack	
Time	4 - 8 Hours

SHIPPING & STORAGE

Recommended Storage Temperature 35°-50°F

SHELF LIFE

Unopened Container 35°-65°F 6 Months (from DOM)
77°F 1 Month (from DOS)

1. Malcom PCU-Series, 10 RPM, 25°C
2. Brookfield RVTD, TF spindle, 5 RPM, 25°C (0.75" spindle depth)
3. Bellcore GR-78-CORE

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Consult MSDS for health and safety information

Type 670

Sn42/Bi58 Profile

