



QUALITEK®

DELTA® 670 Solder Paste No-Clean

DESCRIPTION

670 No-clean solder paste is designed for surface mount and other electronic assembly applications. After reflow, a non-corrosive, non-conductive, highly insulated residue remains. The chemistry in this formula yields a transparent residue.

BENEFITS

- **Bellcore compliant**
- **Excellent Activity**
- **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, 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)	>100,000 ohm/cm
Copper Mirror Test	Pass
Silver Chromate(Chloride & Bromide Test)	Pass
Surface Insulation Resistance-Ohms	
J-STD-004	>1.0 x 10 ¹⁰
Electromigration³	Pass
pH-5% Aqueous Solution (Flux Extract)	5.3 – 5.7
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
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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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TEL: (630) 628-8083 FAX: (630) 628-6543 E-MAIL: solder@qualitek.com HOME PAGE: <http://www.qualitek.com>

HEADQUARTERS: 315 Fairbank St., Addison, IL 60101 U.S.A.

WORLDWIDE BRANCHES: UNITED KINGDOM – MEXICO – CHINA – PHILLIPINES - SINGAPORE

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Consult MSDS for health and safety information

670 PROFILE

