

Datasheet Revision: 4, Revision Date: November 18, 2021

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# Solder Paste Water-Washable Sn96.5/Ag3.0/Cu0.5

Product Highlights Printing speeds up to 100mm/sec Long stencil life, Wide process window Clear residue Low voiding L0 Flux Classification in a water washable formula

Excellent wetting compatibility on most board finishes RoHS 3 and REACH compliant Halogen Free

#### **Specifications**

Alloy:Sn96.5/Ag3.0/Cu0.5Flux Type:Water-WashableFlux Classification:REL0Melting Point:217-220°C (423-428°F)Shelf Life:Refrigerated >12 months, Room Temperature >1 month

Orderable Part Numbers	Mesh Size (Micron Range)	Metal Load	Application	Packaging
HMT43L0SAC-T3-35S		960/	86% Dispense	35g syringe
HMT43L0SAC-T3-100S	Τ3 (25-45 μm)	0070		100g syringe
HMT43L0SAC-T3-500J		00 50/	8.5% Print	500g jar
HMT43L0SAC-T3-600C		00.3%		600g cartridge
HMT43L0SAC-T4-35S		86% Dispens	Diananaa	35g syringe
HMT43L0SAC-T4-100S	T4 (20-38 μm)		Dispense	100g syringe
HMT43L0SAC-T4-500J		88.5%	Print	500g jar
HMT43L0SAC-T4-600C		00.3%	FIIII	600g cartridge
HMT43L0SAC-T5-35S		86%	Dispense	35g syringe
HMT43L0SAC-T5-100S	- Τ5 (15-25 μm)			100g syringe
HMT43L0SAC-T5-500J		88.5% Print	Drint	500g jar
HMT43L0SAC-T5-600J			600g cartridge	

# **Printer Operation** Print Speed: 25-100mm/sec Squeegee Pressure: 70-250g/cm of blade Under Stencil Wipe: Once every 10-25 prints, or as necessary

### Stencil Life

>12 hours @ 20-50% RH 22-28°C (72-82°F) >6 hours @ 50-70% RH 22-28°C (72-82°F)

### Cleaning

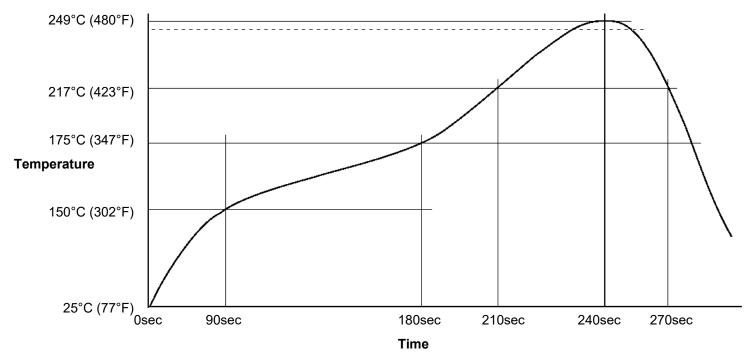
HMT43L0SAC can be cleaned using deionized water at 40-60°C with a recommended water pressure of 30-50 PSI. Under normal conditions, there is no need for detergents or saponifiers. For high density or low standoff assemblies, a detergent cleaner is recommended to reduce surface tension of the washing system.

### Storage and Handling

Refrigerate at 3-8°C (37-46°F). Do not freeze. Allow 4 hours for solder paste to reach an operating temperature of 20-25°C (68-77°F) before use.

### Transportation

This product has no shipping restrictions. Shipping below 0°C (32°F) or above 25°C (77°F) for normal transit times by ground or air will not impact this product's stated shelf life.



# **Test Results**

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Test J-STD-004 or other	Test Requirement	Result
requirements as stated		
Copper Mirror	IPC-TM-650: 2.3.32	L: No breakthrough
Corrosion	IPC-TM-650: 2.6.15	L: No corrosion (uncleaned)
Quantitative Halides	IPC-TM-650: 2.3.28.1	L: <0.05
Electrochemical Migration	IPC-TM-650: 2.6.14.1	L: <1 decade drop (cleaned)
Surface Insulation Resistance 40°C,	IPC-TM-650: 2.6.3.7	L: ≥100MΩ (cleaned)
90% RH @ 168 Hours		
Tack Value	IPC-TM-650: 2.4.44	38-42g
Viscosity – Malcom @ 10 RPM/25°C (x10³mPa⋅s)	IPC-TM-650: 2.4.34.4	Print: 180-230, Dispense:90-120
Visual	IPC-TM-650: 3.4.2.5	Clear and free from precipitation
Conflict Minerals Compliance	Electronic Industry Citizenship Coalition (EICC)	Compliant
REACH Compliance	Articles 33 and 67 of Regulation (EC) No 1907/2006	Contains no substance >0.1% w/w that is listed as a SVHC or restricted for use in solder materials

Conforms to the following Industry Standards:

J-STD-004B, Amendment 1 (Solder Fluxes):	Yes
J-STD-005A (Solder Pastes):	Yes
J-STD-006C, Amendments 1 & 2 (Solder Alloys and Fluxed/Non-Fluxed Solders):	Yes
RoHS 3 Directive (EU) 2015/863:	Yes