

Datasheet Revision: 3, Revision Date: November 17, 2021

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Solder Paste RMA Sn63/Pb37

Product Highlights Excellent Print Definition Long Stencil Life Compatible with enclosed print heads

Excellent wetting compatibility on most board finishes **REACH compliant flux**

Specifications

Alloy:Sn63/Pb37Flux Type:No CleanFlux Classification:ROL0Melting Point:183°C (361°F)Shelf Life:Refrigerated >6 months, Room Temperature >1 month

Orderable Part Numbers	Mesh Size (Micron Range)	Metal Load	Application	Packaging
HMT59PB-T3-35S	- T3 (25-45 μm)	87%	Dispense	35g syringe
HMT59PB-T3-100S				100g syringe
HMT59PB-T3-500J		90%	Print	500g jar
HMT59PB-T3-600C				600g cartridge
HMT59PB-T4-35S	- T4 (20-38 μm)	87%	Dispense	35g syringe
HMT59PB-T4-100S				100g syringe
HMT59PB-T4-500J		90%	Print	500g jar
HMT59PB-T4-600C				600g cartridge
HMT59PB-T5-35S	- T5 (15-25 μm)	87%	Dispense	35g syringe
HMT59PB-T5-100S				100g syringe
HMT59PB-T5-500J		90%	Print	500g jar
HMT59PB-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 >8 hours @ 20-50% RH 22-28°C (72-82°F) >6 hours @ 50-70% RH 22-28°C (72-82°F)

Cleaning

HMT59PB is a Rosin Mildly Activated solder paste that can be left on the board for most SMT assemblies. For applications requiring cleaning, HMT59PB can be removed with HMT175CS Co-Solvent series flux cleaner, or most commercially available aqueous cleaners.

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

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 (Uncleaned)
Surface Insulation Resistance 40°C,	IPC-TM-650: 2.6.3.7	L: ≥100MΩ (Uncleaned)
90% RH @ 168 Hours		
Tack Value	IPC-TM-650: 2.4.44	35-45g
Viscosity – Malcom @ 10 RPM/25°C	IPC-TM-650: 2.4.34.4	Print: 165-225, Dispense: 75-105
_(x10³mPa⋅s)		
Visual	IPC-TM-650: 3.4.2.5	Clear and free from precipitation
Conflict Minerals Compliance	Electronic Industry Citizenship	Compliant
	Coalition (EICC)	
REACH Compliance	Articles 33 and 67 of Regulation (EC)	Contains no substance >0.1% w/w
	No 1907/2006	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:	No (Contains Lead)