



TECHNICAL DATA SHEET

PAI SAC305 Pb Free SOLDER WIRE

PRODUCT DESCRIPTION

PAI SAC305 RoHS Compliance Solder Wires are being formulated with High Virgin Raw Metals Processed in state-of-the-art Vacuum Technology that brings world class Quality along. Here, Oxygen interaction with Alloy is Nil and thus, Dross formation is reduced at PCB Assembly Process. Also an increase flow rate & reduced impurities found. PAI SAC305 Alloy is compatible for a typical range of Flux Application Formulas used in Electronics Industry Today.

STORAGE AND HANDLING

- Do not use Fire near storage area.
- Store in Dry, Cool and Non-Corrosive environment.
- Wear Personal Protective Equipments while Handling.
- Wear Personal Protective Equipments while Processing.

PRODUCT SPECIFICATION

SI No	Item	Specification	Standard
1	Appearance	Bright and shiny surface finishes	
2	Alloy	Sn/Ag3.0/Cu0.5/Ni0.06/Ge0.01	JIS-Z-3282 A CLASS
3	Melting Point	217~219 ⁰ C	DSC
4	Flux Content	2% & 2.2% ±0.2 %	JIS-Z-3283
5	Halide Content Under	0.1%	JIS-Z-3283
6	Gravity	7.4	
7	Spread ability	> 80%	JIS-Z-3197
8	Packaging	500g,	
9	Diameters Tolerances	1.6mm,1mm,0.8mm,0.7mm &0.6mm ± 0.05 mm	JIS-Z-3283
10	Flux Type	ROL1	J-STD-004
11	RoHS Complaint	Yes	International Standards
12	Features	Excellent solder joint reliability. Superior joint strength. Excellent thermal & Mechanical fatigue resistance. Low cleanin required after solder joint	
13	Purpose	For use in applications requiring good activation.	



PHYSICAL PROPERTIES.

No	Test Item	Test Result	Test Method
1	Silver Chromate Test	PASS	IPC-TM-650, 2.6.33
2	Copper Mirror Test	PASS	IPC-TM-650, 2.6.32
3	Copper plate Corrosion	PASS	JIS-Z-3197, 6.6.1
4	S.I.R Test	1×10^9 up	IPC-TM-650, 2.6.3.3
5	Electro migration Test	1×10^{912} up	IPC-TM-650, 2.6.14.1

ALLOY COMPOSITION.

(Sn)	(Ag)	(Cu)	(Ni)	(Ge)	(Zn)	(Al)	(Sb)	(Fe)	(As)	(Bi)	(Cd)	(Pb)
REM.	2.9~ 3.1	0.4~ 0.6	0.04~ 0.08	0.005~ 0.02	0.002 MAX	0.002 MAX	0.12 MAX	0.02 MAX	0.03 MAX	0.10 MAX	1 PPM	100 PPM

Patent No.: Japanese Patent No. 3296289. U.S Patent No. 6179935B1.

For more details, please visit Our Website at www.persangalloy.com or write to us.

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