



# **Lead-Free Solder Paste PF606-P245**

Rev. 2018/03/12 Ver. 01-01

#### **BASIC OVERVIEW**



SnAg3.0Cu0.5X Solder Paste No Clean Halogen Free Low Voiding

#### **APPLICATIONS**

Universal Lead-Free SMD Solder Paste Wide Range of Applications and PCB designs

#### **FEATURES**

Appearance	Gray paste w/o visi			
Alloy Composition	Sn/Ag3.0/Cu0.5/x	JIS-Z-3282		
Melting Point	217~219°C			
Particle Size	(Type 3)	20μm - 45μm	J-STD-005	
	(Type 4)	20μm - 38μm		
	(Type 5)	15μm - 25μm		
Powder Shape	Spherical			
Flux Content	12.0 ± 1.0 wt%	JIS-Z-3197, 8.1.2		
Viscosity	200 ± 30 Pa.s (25±1°C, 10rpm, Malcom)		JIS-Z-3284 Annex 6	
Flux Type	ROL0	J-STD-004		

### Alloy Detail Composition

(Sn)	(Ag)	(Cu)	(Ni)	(Ge)	(Zn)	(AI)	(Sb)	(Fe)	(As)	(Bi)	(Cd)	(Au)	(In)	(Pb)
REM.	2.8~	0.3~	0~	0~	0.001	0.001	0.05	0.02	0.03	0.10	0.002	0.05	0.10	0.05
KEIVI.	3.2	0.7	0.01	0.01	MAX	MAX	MAX	MAX	MAX	MAX	MAX	MAX	MAX	MAX

Patent No.: Japanese Patent No. 3296289, U.S Patent No. 6179935B1, Germany Patent No.19816671C2

(wt%)

Scan Code for Solder Paste Documents







# **Lead-Free Solder Paste PF606-P245**

Rev. 2018/03/12 Ver. 01-01

#### **PERFORMANCE & RELIABILITY**

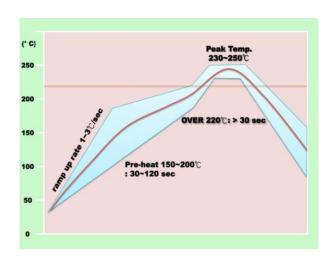
Copper Plate Corrosion Test	Pass	IPC-TM-650, 2.6.15
Halogen Content Test	ROLO	BS EN14582
Copper Mirror Test	Pass	IPC-TM-650, 2.3.32
Viscosity Test (25°C,10 rpm)	200 ± 30 Pa.s	JIS-Z-3284, Annex 6
Spreading Test	> 70%	JIS-Z-3197, 8.3.1.1
Tackiness Test (gf)	> 130 (8hr)	JIS-Z-3284, Annex 9
Slump Test	Pass	JIS-Z-3284, Annex 7,8
Solder Ball Test	Pass	JIS-Z-3284, Annex 11

S.I.R. Test	Pass	IPC-TM-650, 2.6.3.3
Electro Migration Test •	Pass	IPC-TM-650, 2.6.14.1

<sup>▲</sup> Test Conditions: 85 °C, 85% RH for 168hrs

Test Conditions: 65°C, 88.5% RH for 596 hrs

#### **RECOMMENDED REFLOW PROFILE**



Ramp Up Rate (30-150°C): 1.0-3.0°C/s

Pre-heating Time (150-200°C): 30-120s

Time Period Above 220°C: > 30s

Peak Temperature: 230-250°C

Ramp Down Cooling Rate: 1.0-6.0°C/s

#### Notes:

- The recommended reflow profile is provided as a guideline. Optimal profile may differ due to oven type, assembly layout or other process variables.
- For solder paste with powder size Type 4.5 or smaller, nitrogen atmosphere is strongly recommended for best soldering result.





## **Lead-Free Solder Paste** PF606-P245

Rev. 2018/03/12 Ver. 01-01

#### STORAGE & HANDLING:

- Refrigerate solder paste at 0-10°C. Shelf life is 6 months from production date (sealed package).
- Keep away from direct sunlight.
- Allow paste to reach ambient temperature (22-28°C) prior to use for 3-4 hrs. Do not heat up solder paste abruptly.
- Well mix paste with plastic spatula for 1min before use (jars packaging).
- It is recommended to finish fresh paste within 24 hrs. To maintain paste quality, make sure not to store used paste and fresh paste in the same jar.
- If printing process was interrupted for more than 1 hr, remove the remained paste from the stencil and seal in the jar.
- Recommended printing environment is 22-28°C and RH 30-60%.
- To clean up printed circuit boards, it is suggested to use ethanol or isopropanol

Note: For more information, please refer to solder paste application guideline sheet

#### **HOW TO ORDER**

### PF606 - P245 - T4 - 500

Solder Alloy PF606 = SnAg3.0Cu0.5 P245 = ROL0

Particle Size  $T3 = 20-45 \mu m$  30 = syringe 30g

 $T4 = 20-38 \mu m$ 

 $T5 = 15-25 \mu m$ 

Weight / Packaging

100 = syringe 100g

150 = syringe 150g 250 = plastic jar 250g

500 = plastic jar 500g

600 = small cartridge 600g

1200 = large cartridge 1200g





SYRINGE

#### CONTACTS

Tel.: +49-152-5106-5427



support@nevo-solder.com



www.nevo-solder.com

NOTICE: Specifications are subject to change without notice. Contact NeVo® for the latest specifications. All statements, information and data given herein are believed to be accurate and reliable, but are presented without guarantee, warranty, or responsibility of any kind, expressed or implied. Statements or suggestions concerning possible use of our product are made without responsibility or warranty that any such use is free of patent infringement and are not recommendations to infringe any patent. The user should not assume that all safety measures are indicated or that other measures are indicated or that measures may not be required. Specifications are typical and may not apply to all applications.