

New Product: Welco® AP5112 Water Soluble Halogen Free Solder Paste

Welco® AP5112 Halogen Free Water Soluble Printing Solder Paste series is designed for use in fine pitch applications.

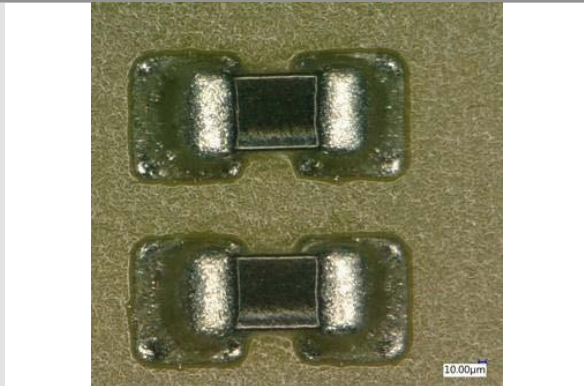


Welco® AP5112 Benefits

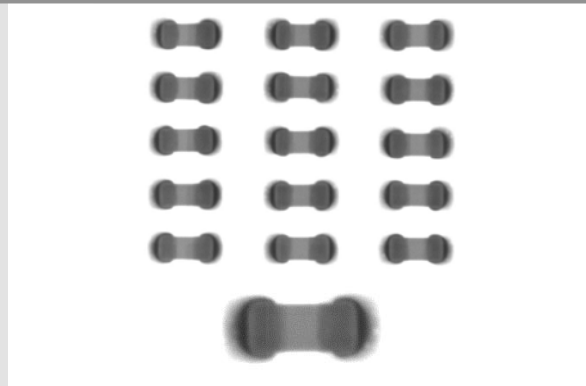
- Halogen free
- Good printability on fine pitch pad size
- Good wetting performance
- Good cleaning properties
- Long stencil life
- Minimal splashing
- Minimal residue
- Available in Type 4 to 7 powders
- Available in low alpha count SAC 305 alloy T5 to T7



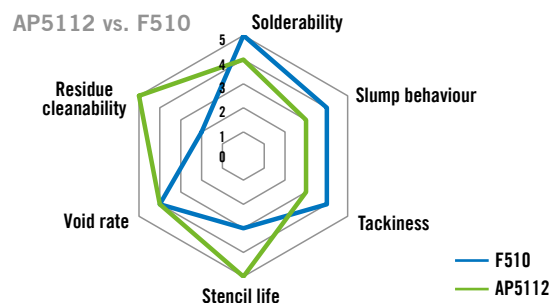
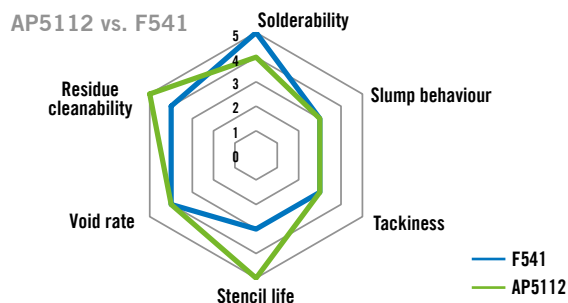
008004 Component Attach with AP5112 Type 7 Solder Paste



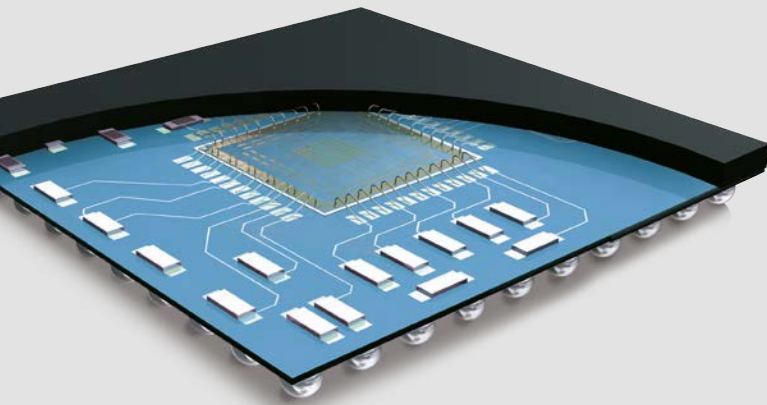
X-ray Images Zero Voids



Benchmarking (AP5112 vs. halogen containing pastes)



Remark: 0 → 5 (from worst to best)



Applications

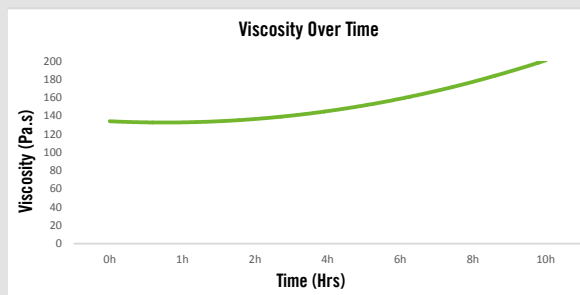
System In Package	Die attach, components attach
Fine Pitch Assembly	Flipchip attach
Bumping	Wafer bumping, substrate bumping

Product Properties Table

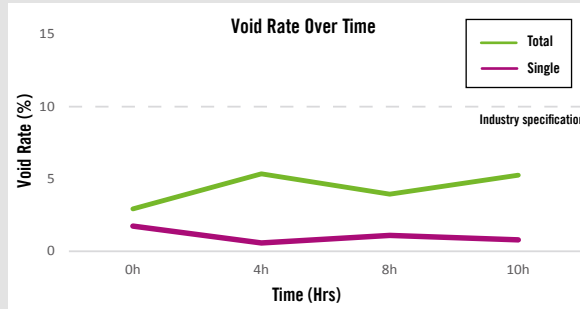
Water Soluble Solder Paste – Overview

Series	WS5112
SIP (Die/Component attach)	+++
FC Attach/Wafer/Substrate bumping	+++
Application	
Print	+++
Properties	
Flux activity (J-STD-004)	H1
Halogen free	+++
Solderability	+++
Slump behavior	+++
Tackiness	+++
Stencil life	+++
Void rate	+++
Residue cleanability	+++
Powder compatibility (Type 3 – 4)	+++
Powder compatibility (Type 5 – 7)	+++

Viscosity Changes Over Printing Time



Void Rate Changes Over Printing Time



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