

Lead free solder Product information

EVASOL
J3-HFS-4

Sn-Ag-Cu series
Lead free resin flux cored wire solder
Halogen-free type corresponding to J-STD-709

EVASOL is our product name for Pb-free, flux cored Lead-free wire solder.

Table .Characteristics

Items		Characteristics	Test method
Alloy composition (%)		Sn:Balance, Ag:3.0, Cu:0.5	Allowable impurity level is based on JIS Z 3282
Solidus temperature(°C)		217	DSC (Differential Scanning Calorimetry)
Liquidus temperature(°C)		220	
Flux content(mass %)		4.0	JIS Z 3197 8.1.2
Halogen content (ppm)	Cl	Under 50	JEITA ET-7304
	Br	Under 100	
Copper mirror test		Passed	JIS Z 3197 8.4.2
Copper plate corrosion test		Passed	JIS Z 3197 8.4.1
Insulation resistance test(Ω)		More than 1.0×10 ⁹	JIS Z 3197 8.5.3 JIS type, 85°C-85%RH, 168h, measured with DC100V inside of chamber
Migration test		Passed	JIS Z 3197 8.5.3 JIS type, 85°C-85%RH, 1000h, applied with DC48V, visual check
Aqueous solution resistance test (Ωm)		More than 1000	JIS Z 3197 8.1.1
Dryness test		Passed	JIS Z 3197 8.5.1
Spreading factor test (%)		More than 75	JIS Z 3197 8.3.1.1
Remarks		JIS Z 3282:2006 Solders-Chemical compositions and forms JIS Z 3197:1999 Testing method for soldering fluxes JEITA-ET7304(2009): Definition of Halogen-free Soldering Materials Regulation of substance for J-STD-709 Cl, Br<1000	

*The above data is representative value.

* J3-HFS-4 is halogen-free flux cored wire solder corresponding to J-STD-709, so no Cl and Br are in it.