

Technical Data Sheet

Electronic Component MaterialsPastes for Thermistor Devices

Application

Ferro offers a broad selection of conductor pastes suitable for many applications in multilayer and ceramic chip components. Ferro's in-house metal and glass formulation and R&D enables us to tailor products to meet specific needs, including working closely with customers to develop the optimum processing methods such as screen printing, dipping, drying and firing.

Thick Film Conductor Pastes for Thermistors

Product Code	61400016	61400017	61300031	61320049	61300033
Typical Applications	PTC Barrier Free Contacts	PTC Barrier Free Contacts	PTC Cover Paste on Ohmic Contacts; NTC	Ohmic Contacts for PTC Discs	NTC Thermistors, MLCC and Varistors
Metal Composition	Ag-B-Zn	Ag-Zn	Ag	Ag	Ag
Application Methods	Screen Printing	Screen Printing	Screen Printing	Screen Printing	Screen Printing
Solderability	Not Solderable	Not Solderable	Good	Good	Good
RoHS Compliant	Yes	Yes	Yes	Yes	Yes
Typical Formulation Properties					
Viscosity in Pa-s at 25°C	14.5 - 21.5	18.3 - 24.5	14.5 - 21.5	48.0 - 62.0	18.0 - 22.0
Weight-% Solids Content	77.0	84.0	74.0	74.0	83.0
Weight-% Ag Content	65.0	40.0	70.0	70.0	80.6
Typical Processing Parameters					
Solvent Loss Replacement Additive	68100063	68100063	68100063	68100063	68100063
Printing Screen Mesh	150 - 325	150 - 325	200 - 325	200 - 325	200 - 325
Drying (Peak Temp / Time)	150°C/10 min.	150°C/10 min.	150°C/10 min.	150°C/10 min.	150°C/10 min.
Firing (Peak Temp / Time)	600-640°C/8-10 min	560-640°C/8-10 min	600-650°C/8-10 min	460-600°C/8-10 min	600-750°C/8-10 min

Electronic Component MaterialsPastes for Thermistor Devices



Platable Ag Termination

Product Code	61710074	
Typical Applications	Thermistor Terminals	
Metal Composition	100% Ag	
Application Method	Dipping	
RoHS Compliant	Yes	
Typical Formulation Properties		
Viscosity in Pa-s at 25°C	29 - 38	
Weight-% Solids Content	78.4	
Weight-% Metals Content	72.3	
Typical Processing Parameters		
Solvent Loss Replacement Additive	68100220	
Drying (Peak Temp / Time)	150°C / 10 min	
Firing (Peak Temp / Time)	660-700°C / 8-10 min	



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