

Product Specification

Product:	Dielectric Paste
Part Number:	07H-1814

Application Scope :

This paste is suitable for use as a dielectric paste for interlayer isolation in thick-film multilayer circuits.

Usage Conditions :

Substrate	Thick-film circuit, alumina ceramic
Usage Method	Printing, 200-250 mesh
Leveling	Let it level at room temperature for 5-10 minutes (adjust time based on actual leveling conditions).
Drying	Bake in a ventilation oven at 100-150°C for 10-15 minutes (the test temperature should not exceed 300°C; the baking time may be adjusted based on actual conditions).
Firing Condition	The sintering temperature is 850°C (recommended value) and the sintering time is 10 minutes.
Thinner	ST-1001

Characteristics :

1. Paste Characteristics :

Characteristic		Standard	Test Method And Conditions
1	Fineness	$\leq 8\mu\text{m}$	FOG test
2	Viscosity	100~200Pa.s	Brookfield HBT (Boli Fei) viscometer, rotor SC4-14/6R), 10 rpm, $25\pm 1^\circ\text{C}$
3	Appearance	Transparent, Black, Blue, Green	

2. Characteristics After Curing :

Under the condition of 1 sintering, Check fired film produced under the conditions specified in 1)

Characteristics	Standard	Test Method And Conditions
4 Appearance	Compact and dense	Visual
5 Capacitance of unit	$\leq 3.0\text{PF/mm}^2$	KT2618 type
6 Wastage of insulation	$< 1\%$	KT2618 type
7 Insulation Resistance	$> 10^9\Omega$ (500VDC, 25°C)	RCJ-3 type
8 Breakdown Voltage	$> 2000\text{VAC}$, 25°C	CS2673A type
9 Dielectric Constant(ϵ)	9~15	Calculation

Save Conditions And Validity Period :

The product shall be stored in a sealed container at an ambient temperature of 5-15°C, with a shelf life of 1 year from the date of shipment.

Packaging Method :

Standard packaging, 1000g/can; samples are available in 200g small can packaging.