



## Product Specification

Product:	Dielectric Paste
Part Number:	07H-1114

### Application Scope :

This paste is suitable for underlying isolation and insulation in 430 stainless steel heating thick-film circuits.

### Usage Conditions :

Substrate	430 Stainless steel
Usage Method	Printing, 150-200 mesh
Leveling	Let it level at room temperature for 5-10 minutes (adjust time based on actual leveling conditions).
Drying	Furnace drying at 100-150°C for 10-15 minutes (if the drying temperature is below 300°C, the drying time may be adjusted according to actual conditions).
Firing Condition	Sintering in a tunnel furnace with air atmosphere, peak temperature 850°C (recommended value), 10 minutes.
Thinner	ST-1001

### Characteristics :

#### 1. Paste Characteristics :

Characteristic		Standard	Test Method And Conditions
1	Fineness	≤8μm	FOG test
2	Viscosity	100~200Pa.s	Boli Fei viscometer, rotor SC4-14/6R), 10 rpm, 25±1°C
3	Appearance	Blue	

## 2. Characteristics After Curing :

Under sintering condition 1, the thickness of the film layer is not less than 80um.

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( $\epsilon$ )	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.