

## Product Specification

Product:	<b>Dielectric Paste</b>
Part Number:	<b>07HD290</b>

### Application Scope :

The paste is suitable for multilayer wiring isolation dielectric paste of thick film circuit.

### Usage Conditions :

Substrate	Thick film circuit, alumina ceramic, zirconia 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 1100°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	≤8μm	FOG test
2 Viscosity	100~200Pa.s	Brookfield HBT (Boli Fei) viscometer, rotor SC4-14/6R), 10 rpm, 25±1°C
3 Appearance	<b>Achromatic colour, Transparent</b>	

#### 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( $\epsilon$ )	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.