



## Product Specification

Product:	Heating Resistor Paste For Stainless Steel Substrates
Part Number:	05H11

### Application Scope :

This product is suitable for heating circuit of stainless steel substrate.

### Usage Conditions :

Substrate	Stainless steel substrate
Printing	200-250 mesh screen printing
Leveling	Let it level at room temperature for 5-15 minutes (adjust time based on actual leveling conditions).
Drying	Bake in a ventilation oven at 100-150°C for 10-15 minutes (if the baking temperature is below 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	ST1001

### Characteristics :

#### 1. Paste Characteristics :

Characteristic	Standard	Test Method And Conditions
1 Fineness	$\leq 8\mu\text{m}$	FOG test
2 Viscosity	120-280Pa.s	Brookfield HBT (Boli Fei) viscometer, rotor SC4-14/6R, operating at 10rpm and $25\pm 1^\circ\text{C}$ , with adjustable viscosity according to user requirements.

#### 2. Characteristics After Curing :

Under the 1-sintering condition, the film thickness is 8-12  $\mu\text{m}$ .

Check fired film produced under the conditions specified in 1) , (Film thickness is 8-12 $\mu\text{m}$ .)

Characteristics		Standard	Test Method And Conditions
3	Appearance	Compact and dense	Eyeballing
4	Resistivity	As below form	Standard film thickness: 10 $\mu\text{m}$
	Temperature Coefficient (TCR)	As below form	HTCR 25-125°C

Product Line	Heating Resistor Paste For Stainless Steel Substrates			
P/N	Resistivity ( $\Omega/\square$ )	TCR (ppm/°C)	Sintering Temperature °C	Viscosity (kcps)
05H11-0R01012	0.01	1500	850°C	120~280
05H11-0R02012	0.02	1200		
05H11-0R03012	0.03	1200		
05H11-0R05012	0.05	1200		
05H11-0R10012	0.10	1200		
05H11-0R20012	0.20	1200		
05H11-0R30012	0.30	1200		
05H11-0R50012	0.50	1200		
05H11-1R00012	1.00	100-1200		
05H11-3R00012	3.00	100-1200		
05H11-4R00012	4.00	100-1200		
05H11-011	10.00	0-600		
05H11-021	20.00	0-600		
05H11-051	50.00	0-600		
05H11-101	100.00	0-600		

**Save Conditions And Validity Period :**

The product shall be stored in a sealed container at an ambient temperature of 5-25°C, with a shelf life of six months from the date of shipment.

**Packaging Method :**

1000g/can