

Product Specification

Product:	Alumina Ceramic Heating Resistor Paste
Part Number:	55H18

Application Scope :

This product is suitable for alumina ceramic heating circuit.

Usage Conditions :

Substrate	Alumina ceramic
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 according to actual conditions).
Drying & Sintering	① Single-layer printing (alumina plate) Furnace drying at 100-150°C for 10-15 minutes Sintering in an atmosphere of tunnel furnace air, peak temperature 850~1000°C (recommended value), 10 minutes
Drying & Sintering	② Multilayer printing (alumina green porcelain) Remove the adhesive at a temperature range of 200-500°C for a minimum of 60 minutes. The sintering temperature is 1300~1450°C (recommended value) and the sintering time is 2-8 hours. The sintering temperature may be increased as needed, but it should generally not exceed 1500°C.
Thinner	ST1001

Characteristics :

1. Paste Characteristics :

Characteristic	Standard	Test Method And Conditions
1 Fineness	≤8μm	FOG test

2	Viscosity	120-280Pa.s	Brookfield HBT (Boli Fei) viscometer, rotor SC4-14/6R,10 rpm, with adjustable viscosity at $25\pm 1^{\circ}\text{C}$ according to user requirements.
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2. Characteristics After Curing :

Under the 1-sintering condition, the film thickness is 8-12 μm .

Check fired film produced under the conditions specified in 1) , (Film thickness is 8-12 μm .)

Characteristics	Standard	Test Method And Conditions
3 Appearance	Compact and dense	Eyeballing
4 Resistivity	As below form	Standard film thickness: 10 μm
TCR	As below form	HTCR 25-125 $^{\circ}\text{C}$

Product Line	Platinum Heater Paste			
P/N	Resistivity (Ω/\square)	TCR (ppm/ $^{\circ}\text{C}$)	Sintering Temperature	Viscosity (kcps)
55H18-0R06030	0.06			
55H18-0R07030	0.07			
55H18-0R08030	0.08			
55H18-0R09030	0.09			
55H18-0R10030	0.10			

Save Conditions And Validity Period :

The product shall be stored in a sealed container at an ambient temperature of 5-25 $^{\circ}\text{C}$, with a shelf life of six months from the date of shipment.

Packaging Method :

1000g/can