

Product specification

Product:	High-voltage resist paste
Part number:	05H02 series

Application scope :

This product is suitable for high voltage resistor and high voltage focusing potentiometer.

Usage conditions:

Substrate	96% alumina、 surface roughness 3-5μm
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 temperature is below 300°C, adjust the baking time based on actual conditions).
Firing Condition	The sintering temperature is 850±2°C (recommended value) and the sintering time is 9-11 minutes.
Thinner	ST1000, ST1001

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 model SC4-14/6R, operates at 10rpm with a temperature range of 25±1°C. The viscosity can be adjusted according to the user's specific requirements.

2. Characteristics after curing:

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

Characteristics		Standard	Test method and conditions
3	Appearance	compact and dense	Eyeballing
4	Resistivity	As below form	Standard film thickness is 10μm.
	TCR	As below form	HTCR 25-125°C, CTCR 25- -55°C
	ESD	As below form	R/□ ≤ 100K: 1000V 1s 5 次; R/□ > 100K: 2000V 1s 5 次
	VCR	As below form	50-500v; 20-200v(100K/□)
	STOL	As below form	Power density 0.175W/mm ² , 1 hour, 500V/mm
	high voltage load stability	As below form	40°C 1000V/mm 2h

Product NO	(Ω/□)	Toleranc e (Ω/□)	Main Compositions	TCR (ppm/°C)	ESD (%)	Firing Temp (°C)
05H02-102	1K	±15%	Pb ₂ Ru ₂ O ₆	±150		850
05H02-103	10K	±15%	Pb ₂ Ru ₂ O ₆			
05H02-104	100K	±15%	Pb ₂ Ru ₂ O ₆			
05H02-105	1M	±15%	Pb ₂ Ru ₂ O ₆			
05H02-106	10M	-30%	Pb ₂ Ru ₂ O ₆			
05H02-107	100M	-30%	Pb ₂ Ru ₂ O ₆	-300-100		
05H02-108	1G	-30%	Pb ₂ Ru ₂ O ₆			
05H02-109	10G	-30%	Pb ₂ Ru ₂ O ₆			
05H02-1010	100G	-30%	Pb ₂ Ru ₂ O ₆			

Save conditions and validity period :

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

Packaging method:

1000g/can