

## Product Specification

Product:	Conductive Gold Paste
Part Number:	54M-1803

### Application Scope :

This product is suitable for alumina ceramic products, sensors, and other electrodes.

### Usage Conditions :

Substrate	Alumina ceramic
Printing	200-300 mesh screen printing
Leveling	Let it level at room temperature for 5-15 minutes (depending on the actual leveling situation).
Drying	Bake in an oven at 100-150°C for 10-15 minutes (if the temperature is below 300°C, adjust the baking time according to actual conditions).
Firing Condition	Sintering in a tunnel furnace under air atmosphere at a peak temperature of 600~850°C (recommended value) for 10 minutes. (The sintering range can be adjusted within 600-850°C according to actual needs, but the peak temperature time must be 10 minutes.)
Thinner	ST-1000

### Characteristics :

#### 1. Paste Characteristics :

Characteristic	Standard	Test Method And Conditions
1 Fineness	≤5μm	FOG test
2 Viscosity	230-400Pa.s	Brookfield HBT (Boli Fei) viscometer, rotor model SC4-14/6R, operates at 10rpm with viscosity adjustable within 25±1°C according to user requirements.

#### 2. Characteristics After Curing :

Under sintering conditions 1, the film thickness ranges from 8 to 12 microns. Check fired film produced under the conditions specified in 1) , (Film thickness is 8-12μm.)

Characteristics		Standard	Test Method And Conditions
3	Resistivity	$\leq 6\text{m}\Omega/\square$	Test pattern 0.6mm×60mm
4	Adhesion		Peel Test: 0.5mmφ Tin plated Cu wire soldered on 2mm×2mm Pad. Solder: 96.5Sn/0.5Cu Mildly activated flux used.
	Initial Adhesion	$\geq 45.2\text{N}$	
	Ageing Adhesion	$\geq 32\text{N}$	Aging conditions: 150°C, 24 hours

**Save Conditions And Validity Period :**

The product should be stored in a sealed environment at 5-25°C. The shelf life is 1 year from the date of shipment.

**Packaging Method :**

Standard packaging: 1000g per can. Samples are available in 200g small cans.