

## Product Specification

Product:	<b>Silver-Palladium Paste/ Ag/Pd Paste</b>
Part Number:	<b>02H-2020</b>

### Application Scope :

This product is suitable for high-temperature thick-film circuits and LTCC ceramic printed electrodes.

### Usage Conditions :

Substrate	Alumina ceramics
Printing	200-300 mesh screen printing
Leveling	Let it level at room temperature for 5-15 minutes (adjust time based on actual leveling conditions).
Drying & Sintering	① Single-layer printing (Alumina plate) Furnace drying at 100-150°C for 10-15 minutes The sintering temperature is 850°C (recommended value) and the sintering time is 10 minutes.
	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 850°C (recommended value) and the sintering time is 2-10 hours. The sintering temperature may be increased as needed, but it should generally not exceed 1250°C.
Thinner	ST-1000

### Characteristics :

#### 1. Paste Characteristics :

Characteristic	Standard	Test Method And Conditions
1 Fineness	≤5μm	FOG test
2 Viscosity	130-280Pa.s	Brookfield HBT (Boli Fei) viscometer, rotor SC4-14/6R, operating at 10 rpm, with viscosity adjustable to 25±1°C according to user requirements.

#### 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 8-12μm.)

Characteristics		Standard	Test Method And Conditions
3	Resistivity	$\leq 20\text{m}\Omega/\square$	Test pattern 0.6mm×60mm
4	Adhesion Strength		Peel Test: 0.5mmφ Tin plated Cu wire soldered on 2mm×2mm Pad. Solder: 96.5Sn/0.5Cu Mildly activated flux used.
	Initial Adhesion	$\geq 43.2\text{N}$	
	Ageing Adhesion	$\geq 24\text{N}$	Aging conditions: 150°C, 24 hours

**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 1 year from the date of shipment.

**Packaging Method :**

Standard packaging, 1000g/can; samples are available in 200g small can packaging.