

Product specification

Product:	Silver palladium paste
Part number:	02H-3630

Application scope :

This product is suitable for high temperature thick film circuit and piezoelectric ceramic printed electrode.

Usage conditions:

Substrate	Piezoelectric ceramics
Printing	200-350 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 (Piezoelectric ceramic plate) The sintering process is conducted in a tunnel furnace with an air atmosphere at 100-150°C for 10-15 minutes, followed by a peak temperature of 1000°C (recommended) for 10 minutes.
	② Multilayer Printing (Piezoelectric ceramic) The temperature range for the process is 200-500°C, with a minimum of 60 minutes of sintering in an air atmosphere tunnel furnace, and a peak temperature of 1100°C (recommended), lasting 2-10 hours. The sintering temperature may be increased as needed, but generally not exceeding 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 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 8-12 μm .)

Characteristics	Standard	Test method and conditions
3 Resistivity	$\leq 35\text{m}\Omega/\square$	Test pattern 0.6mm $\times$ 60mm
4 Adhesion		Peel Test: 0.5mm ϕ Tin plated Cu wire soldered on 2mm $\times$ 2mm Pad. Solder: 96.5Sn/0.5Cu Mildly activated flux used.
Initial adhesion	$\geq 46.2\text{N}$	
Ageing adhesion	$\geq 27\text{N}$	Aging condition: 150 $^{\circ}\text{C}$, 24 hours

Save conditions and validity period :

The product should be stored in a sealed container at 5-25 $^{\circ}\text{C}$, with a shelf life of 1 year from the date of shipment.

Packaging method:

Standard packaging: 1000g per can. Sample available in 200g small can packaging.