



Product Specification

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| Product: | Palladium Paste |
| Part Number: | 60H-0203 |

Application Scope :

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

Usage Conditions :

| | |
|-------------------|--|
| Substrate | Alumina ceramic |
| 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 | <p>① Single layer printing(Alumina ceramic) Sintering at 100-150°C for 10-15 minutes in a tunnel furnace with an air atmosphere, with a peak temperature of 850°C (recommended), for 10 minutes.</p> <p>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 1400°C.</p> |
| Thinner | ST-1000 |

Characteristics :

1. Paste Characteristics :

| Characteristic | Standard | Test Method And Conditions |
|----------------|---------------------|--|
| 1 Fineness | $\leq 5\mu\text{m}$ | FOG test |
| 2 Viscosity | 130-280Pa.s | Brookfield HBT (Boli Fei) viscometer, rotor SC4-14/6R, operating at 10 rpm, with viscosity adjustable to $25\pm 1^\circ\text{C}$ 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 8-12 μm .)

| Characteristics | | Standard | Test Method And Conditions |
|-----------------|-------------------|----------------------------------|---|
| 3 | Resistivity | $\leq 150\text{m}\Omega/\square$ | 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 | $\geq 33.2\text{N}$ | |
| | 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.