

## Product Specification

Product:	Molybdenum Manganese Paste
Part Number:	65H-1805

### Application Scope :

Molybdenum-manganese electronic paste is a kind of printable thick film conductor electronic paste, which can be used as the surface conductor layer of AlN, SiN, B<sub>2</sub>O<sub>3</sub>, Al<sub>2</sub>O<sub>3</sub> substrate.

The main features are as follows:

- the shrinkage rate is consistent with that of ceramics, and the bonding strength between sintered ceramics and ceramics is good.
- It can meet the requirements of printing and hole filling. The metal particles are well dispersed and the metallized surface should be flat.

### Usage Conditions :

Substrate	Alumina ceramic
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 (temperature below 230°C)
Firing Condition	The sintering temperature is 1300~1550°C (recommended value) and the peak time is 30-45 minutes.
Thinner	ST-1001

### Characteristics :

#### 1. Paste Characteristics :

Characteristic	Standard	Test Method And Conditions
1 Fineness	≤5μm	FOG test
2 Viscosity	50-280Pa.s	Brookfield HBT (Boli Fei) viscometer, rotor SC4-14/6R, 10 rpm, 25±1°C

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## 2. Characteristics After Curing :

Under the first sintering condition, the film thickness is 8-12  $\mu\text{m}$ .

Check fired film produced under the conditions specified in 1 ) , (Film thickness is 8-12 $\mu\text{m}$ .)

Characteristics		Standard	Test Method And Conditions
3	Resistivity	$\leq 25\text{m}\Omega/\square$	Test pattern 0.6mm $\times$ 60mm

## Save Conditions And Validity Period :

The product should be stored in a sealed container at 5-25°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.