

## 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 |

#### 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 8-12μm.)



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| Characteristics |             | Standard                        | Test method and conditions                     |
|-----------------|-------------|---------------------------------|------------------------------------------------|
| 3               | Resistivity | $\leq 25\text{m}\Omega/\square$ | Test pattern $0.6\text{mm} \times 60\text{mm}$ |

## 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.