

Product Information

KS-21 is a two-component high-precision screen printing solder mask ink. It applies to single-sided boards for making thin and intensive circuits. It has good screen printing adaptability with the glossy and scratch-proof surfacing. It has excellent adhesion and resistance to chemicals and heat.

KS-21 has a long shelf-life, pot life, and excellent stability in the processing operation. It also exhibits excellent plating resistance to all plating chemistries.

Product Specification

Item / Property	Features/Specific Value	Notes/Remark
Color	Rice white	
Fineness	$\leq 10\mu\text{m}$	0~25 μm Fineness gauge
Screen Mesh	62T-77T	As per Requirement
Curing	$150\pm 10^{\circ}\text{C}$ (25-40 min)	
Hardness	$\geq 6\text{H}$	
Mixing Ratio	1:4 (Hardener/Base)	Weight Ratio
Pot life after mixing	24 hour	Store below 25°C
Environment standard	RoHS	SGS Testing
Packaging	Base : 800 gm Hardener : 200 gm	According to customer requirements
Shelf life	12 months since the date of manufacture	Store below 25°C Avoid direct light

Attention:

1. The base and hardener should be mixed according to the ratio and stirred thoroughly before use.
2. If the ink needs to be diluted please use a Special solvent. We will also offer you a special diluent or DPM if the ink needs diluting.
3. The values above are based on experiments in our lab. Experiments need to be carried out in order to get the proper use condition.

Directions of use:

1. Mixing

Mix a main agent with a hardener with a weight ratio and stir thoroughly, add the appropriate diluent, and stir for 5 ~10 minutes. The viscosity of ink is adjusted to 120 ± 20 ps if printed by hand. And it is adjusted to 180 ± 20 ps if printed by machine. The viscosity of the ink mixed above is measured at 25°C. Please use the special diluent of our company if the viscosity of the ink needs to adjust.

2. Screen Mesh

For Printing, we recommended using 62T-77T Polyester Screen cloth

3. Drying

For single side (Box Oven)

$150\pm 10^{\circ}\text{C}$ for 25~30 min.

For single side (Conveyor Oven)

$180\pm 10^{\circ}\text{C}$ for 8~10 min.

(The values above are based on experiments in our lab. Experiments need to be carried out in order to get the proper use condition.)

Operating Condition:

- Always work in a clean room
- Avoid contact of dust with the ink
- Working temp. -22°C to 26°C

Storage:

- Store in a cool and dry place with good ventilation and without exposure to direct sunlight
- Recommended storage temperature is below 25°C .