



TK PASTE CN-7122S INSTRUCTION MANUAL

- Be sure to read this INSTRUCTION MANUAL and SDS before use and use product properly for your safety.
- Be sure to keep this Manual in easily referable place at any time.

[FEATURES]

One-liquid, easily-handled, and air-dry silver paste
 Good adhesion on metals (Au, Cu, Al, SUS) even after reliability test.

[CHARACTERISTIC VALUES & USE CONDITIONS]

Item	Characteristics	Note
Resistivity	$5 \times 10^{-4} \Omega \cdot \text{cm}$	Apply for W1mmxT0.1mm. Dry at 60°C for 1hrs.
Store Condition	-10°C or below	
Viscosity	10 Pa·s	E type viscometer @25°C 5rpm
Recommended curing condition	40°C×20min	Apply 0.1mm thickness, 25°C×120min or 60°C×10min is also acceptable.

[FOR SAFETY]

- The product contains flammable organic solvent. Keep fire away and ventilate well.
- To prevent water contamination, leave the product tightly sealed at room temperature of 15°C to 25°C for 30 min. for thawing.
 Avoid forced heating including hot/warm water, oven and hot plate, or container may explode.
- Be sure to read Safety Data Sheet (SDS) before use for detailed description of the product, including its toxicity and emergency procedures.

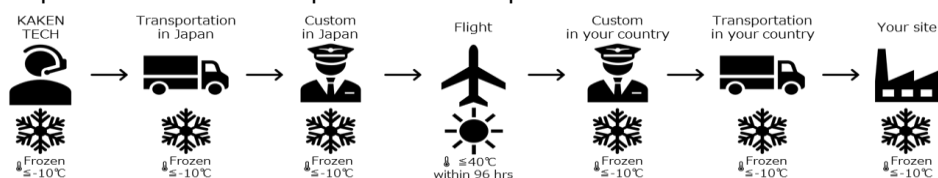
[FOR BEST PERFORMANCE]

- Store the product at -10 °C or below.
- Before application, use cleaning solvent such as alcohol and acetone to clean adherend surface. If not clean, the product may not perform at it best.
- Conductivity can be obtained by drying this product. If the drying temperature or time is insufficient, conductivity may not be obtained.
 The time for conductivity to stabilize depends on the temperature and the amount of application.

[Cautions on storage temperature during transportation]

This product can be shipped internationally at room temperature.
 However, the product should be kept at room temperature for no more than 96 hours.

[Example]





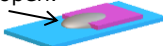

[USE METHOD]

I. Store

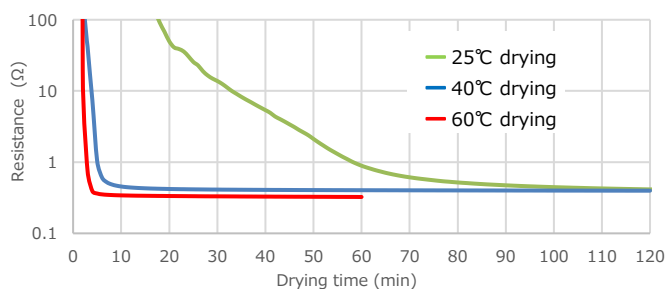
- Refrigerate the product at -10°C or below.
 If stored at above -10°C, components separate/precipitate and characteristic values may change.
- Use the product from the oldest lot. Lot# is the small numbers marked on the bottom of the tube.

II. Use

- Read SDS thoroughly before use and follow below instructions.
 If not properly handled, the product performance may deteriorate.

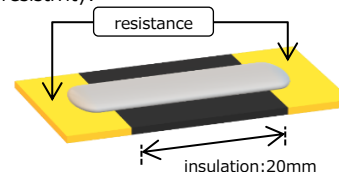
Procedure	Remarks
1 Take the product from freezer, leave it tightly sealed at room temperature for more than 30 min., and bring it back to normal temperature. Wipe waterdrop off before open.	<ul style="list-style-type: none"> ✓ Avoid forced heating including hot/warm water, oven and hot plate, or container may explode. ✓ Wipe off any waterdrops that may appear on the container. Water contaminated product cannot be used.
2 Use cleaning solvent such as alcohol and acetone and clean adhered surface.	<ul style="list-style-type: none"> ✓ If flux or oil is present in the area where the adhesive is applied, adequate performance may not be obtained. ✓ Dry thoroughly after cleaning. Residual cleaning agent may prevent adequate adhesion.
3 Use dispenser to apply. Recommended internal diameter of needle is 0.3mm or larger.	<ul style="list-style-type: none"> ✓ Needle with smaller internal diameter may clog the product.
4 This product dries by heating and provides adhesive strength and conductivity. (Recommended drying condition is 40°C×20min. Drying condition of 20°C×120min or 60°C×10min are acceptable.) The time for conductivity to stabilize depends on the temperature and the amount of application. Refer to the graph shown in section II. below to set suitable drying conditions.	<ul style="list-style-type: none"> ✓ When drying, use equipment that can maintain a constant temperature (such as a constant temperature oven with airflow). Dryers and hot plates do not provide uniform heating and may not provide sufficient performance. ✓ Depending on the ambient environment, such as under high temperatures, the characteristics may deteriorate even within the pot life. Please manage the product in accordance with actual usage conditions.
!! This product should be applied with the surface open to allow the solvent to dry. If a large area is sandwiched, the solvent inside will not dry and sufficient performance will not be obtained (see the figure on the	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>[Appropriate]. The surface of the paste is open.</p>  </div> <div style="text-align: center;"> <p>[Inappropriate] Paste is trapped and cannot be dried.</p>  </div> </div>

Correlation of Resistance and Drying time under different temp.(25, 40, 60°C)



*Measurement Procedures

Apply TK PASTE CN-7122S onto glass epoxy substrat with Cu electrode.
 (Stroke width: 10mm, Thickness: 100um)
 After drying with each condition, measure the resistivity.



III. Disposal

- Separate this product when disposing. Contaminated stuffs such as used container and wiping cloth shall be separated from other waste to avoid contacting with each other.
- Use professional waste treatment service to dispose the product.