

## Technical Data Sheet : Copper Foil Tape (KAT-S5722CA)

### Product Description:

**Copper Foil Tape** is made up with copper foil carrier coated with high quality acrylic conductive adhesive laminated with paper release liner. Electric signal shielding mainly depends on excellent electrical conductivity of copper and magnetic shielding requires conductive material “nickel” of adhesive surface to achieve the function of magnetic shielding.

### Features :

- Provides a very low rate of electrical resistance and is conductive in nature.
- Aggressive acrylic adhesive forms a permanent bond to low surface energy materials.
- The malleable copper foil conforms well to irregular shapes and surfaces.
- It is chemically resistant to oxidation , corrosion and discoloration.
- Pressure sensitive acrylic adhesive is conductive using nickel and copper.
- Good high and low temperature resistance.
- Easy unwind & Can be easily soldered .

### Application:

- Mainly used in electromagnetic shielding, sub-electric signal shielding and magnetic signal shielding.
- Widely used in mobile phones, computers, laptops and other digital products.
- Suitable for all kinds of transformers, PDAs, PDPs, LCD monitors, notebook computers, photocopiers and other electronic products within the electromagnetic shielding.
- Ideal for use in grounding, soldering application and RFI / EMI shielding application in the electrical and electronic industries.

### Physical Properties & Specifications:

Properties	Metric
Backing	Copper Foil
Adhesive	Acrylic Conductive
Color	Gold
Total Thickness	0.060 mm $\pm$ 5%
Backing Thickness	0.035 mm $\pm$ 2%
Release Liner	70gsm Siliconised Paper Release Liner
180° Peel Adhesion	750 grams / Inch
Tensile Strength	$\leq$ 12 kg / Inch
Electrical Resistance	0.005 $\Omega$
Elongation at Break (ASTM D 3759)	$\leq$ 5 %
Tack	$\leq$ 12 cm
Operating Temperature	-10° C to +120° C

**Note :** The above product recommendations are done in the best knowledge and experience we have at **Klebstoff**, however, we advice that the product has to be tested for a particular purpose and real time application by the customer before ordering. **Klebstoff**, holds the right to make any modifications/improvement in the product in the interest of better performance in the product.

### Works:

GAT No. 1147, Lane. No. 2, Shivtej Park (Sai Park), Near Raison College, Wagholi, Pune – 412207. (MH).  
Ph - +91 8050060618 / +91 9763558448. Email – [info@klebstoff.co.in](mailto:info@klebstoff.co.in) & [klebstoff.info@gmail.com](mailto:klebstoff.info@gmail.com)

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### Standard Presentation:

<b>Roll Width</b>	- Starts from 8/10/12/15/18/20/24/48 up to 320 mm (Also, Available in Customized Widths)
<b>Roll Length</b>	- 33 Mtrs & 50 Mtrs Only.
<b>Thickness</b>	- 0.060 mm $\pm$ 5%.
<b>Core</b>	- 3mm thick & 76mm Inner Dia ("Klebstoff" Brand or Plain Core)
<b>Packaging</b>	- Shrinked with PVC Film and Packed In Plain Carton Boxes.
<b>Color</b>	- Gold

### Handling and Storage:

- Rolls should be stored flat on their cut edges in the original sealed .
- The product must be protected from dust, heat, moisture, direct sunlight and solvent fumes.
- The storage temperature should be as per room temperature (or between +10<sup>0</sup> C to +25<sup>0</sup> C.)
- Relative Humidity 50  $\pm$  10% in Original Packed Cartons
- Use within 6 months from receipt of the material.

### Knowledge for Tape Application and Use :

- The substrate surfaces should be clean, dry and free of dust, grease, oil or other contaminants before applying.
- The Coated adhesion depends on the contact area therefore when applying it requires proper pressure by roller or hand & time helps to develop better adhesive contact and improve the adhesion strength.
- Not doing so may affect the general properties and appearance.

### NOTICE:

- Please try a sample and make sure the tape is suitable for the application before use it.
- Customers who buy Cut Rolls or the jumbo rolls should stop using or re-winding and slitting process once find that there has quality problem with the material. Contact us right away. If customers use the product or re-wind/cut the problematic jumbo into log/finished rolls, **Klebstoff Adhesive Tapes Pvt. Ltd.** will not response to make any indemnity.
- Ideal tape application temperature is 8<sup>o</sup> C to 40<sup>o</sup> C. It is not suggested to use the tape below 0<sup>o</sup> Celsius, because the adhesive will become too firm to adhere readily. However, once customers insist on using the tape under such a low temperature, please contact us, **Klebstoff** will adjust the adhesive, but **Klebstoff Adhesive Tapes Pvt. Ltd.** doesn't guarantee anything.
- **Expiry Date:** 12 months after production date. If followed above Handling & Storage Instructions.
- All **Klebstoff Adhesive Tapes Pvt. Ltd.** products are strict inspected before sent to customers, but the applications might be different between different customers, there may exist factors which are beyond **Klebstoff Adhesive Tapes Pvt. Ltd.** knowledge and control, so customers should check the quality of every order before use the tape. If customers use the product without inspection, they must be responsible for the potential quality problems and economic loss. If the product is proved to be defective, the exclusive remedy, at **Klebstoff Adhesive Tapes Pvt. Ltd.** option, shall be to refund the purchase price of or replace the problematic product.

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## Material Safety Data Sheet

### Product Identification : Copper Foil Tape (KAT-S5722CA)

#### Hazard Identification :

- This material is not considered to be hazardous or safety risk.
- The product contains no eye or skin irritants and is not considered to be allergic.

#### Company Details : Klebstoff Adhesive Tapes Pvt. Ltd.

**Address :** GAT No. 1147, Lane No. 2, Shivtej Park, (SAI PARK), Near Raison College, Wagholi, Pune - 412207. Maharashtra. (INDIA). Ph - +91 8050060618/+91 9763558448. Email - klebstoffadhesivetapes@gmail.com

#### Composition and Ingredients:

**Backing** – Copper Foil.

**Adhesive** – Acrylic Conductive Adhesive.

**Release Liner** – White Siliconised Paper Release

#### First Aid Measures:

**Skin / Eye Contact:** clean the skin / Eye with lot of water and soap for 15 Minutes.

**Oral:** If a piece of tape is swallowed, rinse out mouth and drink large quantities of water. If necessary obtain medical attention.

**Inhalation:** Remove from exposure and obtain medical assistance in case of breathing difficulties.

#### Fire Extinguishers:

**Flammable Limits:** Not Flammable

**Fire Extinguishers:** Water, foam, co<sub>2</sub>, and Dry Chemicals.

**Unusual fire hazards:** Produces dense black smoke if burned.

**Protection :** Keep material in room temp and away from heat or fire.

#### Handling and Storage:

- **Work area:** remove the danger of trapping parts of the body or clothing & Maintain Well Ventilated Environment.
- Rolls should be stored flat on their cut edges in the original packaging.
- The product must be protected from dust, heat, moisture, direct sunlight and solvent fumes.
- The storage temperature should be as per room temperature (or between +10<sup>o</sup> C to +25<sup>o</sup> C.)
- Relative Humidity 50 ± 10% in Original cartons.

#### Chemical & Physical Properties:

**Physical State:** Product is solid, supplied in rolls.

**Odour :** Slight Smell or Odorless.

**Colour:** Gold.

**Solubility in water :** Not Soluble in Water.

**Auto Ignition Point:** Above 200 Degree temp.

\* Other Properties are Not Applicable.

#### Other Information:

##### ❖ **Accidental Release Measures:**

The product is a solid and insoluble product.

Therefore uncontrolled release (into air or water) is highly unlikely.

❖ **Exposure Controls:** Ensure sufficient ventilation.

▪ **Respiratory/Skin protection:** Not Necessary.

▪ **Eye protection:** Safety glasses Necessary.

▪ **Hand protection:** Gloves are Necessary.

❖ **Toxicological Information:**

Not Applicable/Determined.

❖ **Stability and Reactivity:**

▪ Stable under normal operating temperatures, no hazardous polymerization will occur.

▪ When heated above 310°C, gaseous decomposition products are released.

▪ Decomposition Products : Toxic fumes of carbon monoxide, carbon dioxide, acetaldehyde

❖ **Ecological Information:** Parts of the product will slowly degrade under exposure to UV-light.

❖ **Disposal Considerations:** Dispose product in accordance with regional and local regulations.

❖ **Transport Information:** Product is non-regulated; no special measures are required.

❖ **Regulatory Information:** Not available.

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