TC8101 is a pure Au conductor, which provides excellent compatibility with Heratape Clad CT 800 and HL2000 during the co-firing process.

TC8101 is optimized for screen printing conductor tracks such as fine line patterns as a surface conductor or an internal conductor. It can be bonded with Al and Au wire.

- Au and Al wire bondable
- Compatible with Heratape® CT800 and HL2000
- Prints fine lines
- Prints full ground planes
- Pb and Cd free

**Typical Properties**

- **Resistivity:** < 10 mΩ/□ at 12 µm fired film thickness
- **Viscosity:** 380 – 480 Kcps, Brookfield HBT, #14 spindle at 10 RPM, 25 °C
- **Solids:** 84.5 ± 1.0 %
- **Wire Bond Adhesion:**
  - 1 mil Au ≥ 8 g
  - 2 mil Au ≥ 20 g
  - 10 mil Al > 400 g

**Recommended Processing Guidelines**

**Printing:**
- 325 – 400 mesh stainless steel screen
- 0.5 mil emulsion

**Drying:**
- Dry at 80 °C for 10 minutes

**Firing:**
- Recommended profile in a box oven, with a peak temperature of 850 – 865 °C (30 minute dwell). Total firing cycle time of up to 10 hours.

**Fired Film Thickness:**
- 8 – 12 µm (when printed with a 325 mesh screen)

**Compatibility:**
- Dielectric: Heratape® CT800 and HL2000
- Cofireable via fill: TCO101

**Thinner:**
- RV-372 (Terpineol)

**Warranty:**
- Material guaranteed to meet specifications for 6 months from date of shipment.

**Storage:**
- Store in a dry location at 5 – 25 °C.
- DO NOT REFRIGERATE.
- Allow paste to come to room temperature prior to opening. Spatulate well before using, as settling may occur during storage.