

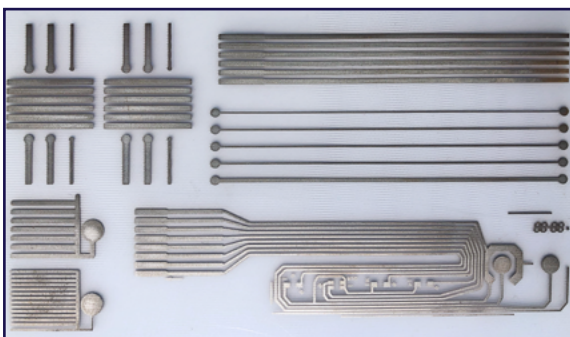
Multi-Layer, Multi-Material Additive Jettable Inks

Silver Conductive Inks

- ✓ **Highest Conductivity**
Conductive performance near the bulk of silver conductivity – resistivity in the range of $10^{-8} \Omega \cdot \text{M}$.
- ✓ **Lowest Sintering Temp**
Sintering efficiency as low as 8°C in minutes.
- ✓ **Particle-Free Formulation**
Jetting reliability particle-free formulation won't clog heads and does not require recirculation.
- ✓ **Flexibility**
Flexible and non-brittle with excellent elongation.
- ✓ **Print Compatibility**
Viscosity tuned for ElectroJet™ brand ElectroUV3D™ printer or other industry-branded heads and printers such as Ricoh, Konica-Minolta, Fuji, and Xaar.

Dielectric Insulating Inks

- ✓ **Dielectric Performance**
Superior insulating performance when sandwiched between conductive layers, ensuring efficient electrical insulation.
- ✓ **Adhesion Promotion**
Applied as a base layer to optimize adhesion to low surface energy substrates.
- ✓ **Print Enhancements**
Provide optimal surface properties for conductive ink holdout and image resolution.
- ✓ **Protective Encapsulation**
protects conductive traces from moisture, chemicals, and physical abrasion of the external environment.
- ✓ **Print Compatibility**
Viscosity tuned for ElectroJet™ brand ElectroUV3D™ printer or other industry-branded heads and printers such as Ricoh, Konica-Minolta, Fuji, and Xaar.



Name/#	Description	Key Features	Resistivity	Sintering
C3-Ag-1037-2	Ethanol-based silver conductive ink for the ElectroUV3D inkjet printer	Low sintering temperature particle-free silver conductive material formulated for piezo inkjet heads	Range $10^{-8} \Omega \cdot M$	80°C
C3-Ag-1037-2h	Ethanol-based silver conductive ink, tuned viscosity for industrial inkjet specifications	Low sintering temperature particle-free silver conductive material formulated for piezo inkjet heads	Range $10^{-8} \Omega \cdot M$	80°C
C3-Cu-100	Copper conductive ink for the ElectroUV3D inkjet printer	Copper conductive material formulated for piezo inkjet heads	$2 - 10 \times 10^{-7} \Omega \cdot M^*$	180°C
C3-DI-7	UV curable dielectric insulating ink for the ElectroUV3D inkjet printer	Insulating / building material with excellent adhesion promotion for substrates and compatibility with silver conductive material	$3.3 \times 10^{13} \Omega \cdot cm$	UV
C3-DI-7h	UV curable dielectric insulating ink, tuned viscosity for industrial inkjet specifications	Insulating / building material with excellent adhesion promotion for substrates and compatibility with silver conductive material	$3.3 \times 10^{13} \Omega \cdot cm$	UV
C3-DI-HF-27	UV curable low loss, high frequency dielectric insulating ink for the ElectroUV3D inkjet printer	High frequency insulating / building material with excellent adhesion promotion for substrates and compatibility with silver conductive material	N/A	UV
C3-OPT-7	Optically clear UV curable dielectric insulating ink for the ElectroUV3D inkjet printer	Transparent insulating / building material with excellent insulating properties for higher voltage and compatibility with silver conductive material	$3.3 \times 10^{13} \Omega \cdot cm$	UV
C3-OPT-7h	Optically clear UV curable dielectric insulating ink, tuned viscosity for industrial inkjet specifications	Transparent insulating / building material with excellent insulating properties for higher voltage and compatibility with silver conductive material	$3.3 \times 10^{13} \Omega \cdot cm$	UV
C3-DI-8	Flexible UV curable dielectric insulating ink for the ElectroUV3D inkjet printer	Insulating / building material for interlayer insulation optimized for flexible circuitry and compatibility with silver conductive material	$3.3 \times 10^{13} \Omega \cdot cm$	UV
C3-DI-8h	Flexible UV curable dielectric insulating ink, tuned viscosity for industrial inkjet specifications	Insulating / building material for interlayer insulation optimized for flexible circuitry and compatibility with silver conductive material	$3.3 \times 10^{13} \Omega \cdot cm$	UV
C3-DI-CNT-6	High-performance dielectric ink for the ElectroUV3D inkjet printer in conjunction with C3-DI-7	Makes C3-DI-7 3x stronger, withstands much higher temperatures, dramatically small Coefficient of thermal expansion with a lower dielectric constant	N/A	UV
C3-PR-8	A direct chemical adhesion primer solution for LSE surface preparation	Specialized direct chemical adhesion primer solution for high-surface energy substrates optimized for direct print silver conductive ink	N/A	N/A
C3-S	An overnight storage solution for conductive inkjet heads	Maintains the performance and longevity of conductive inkjet heads for consistent printing results over time	N/A	N/A



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