

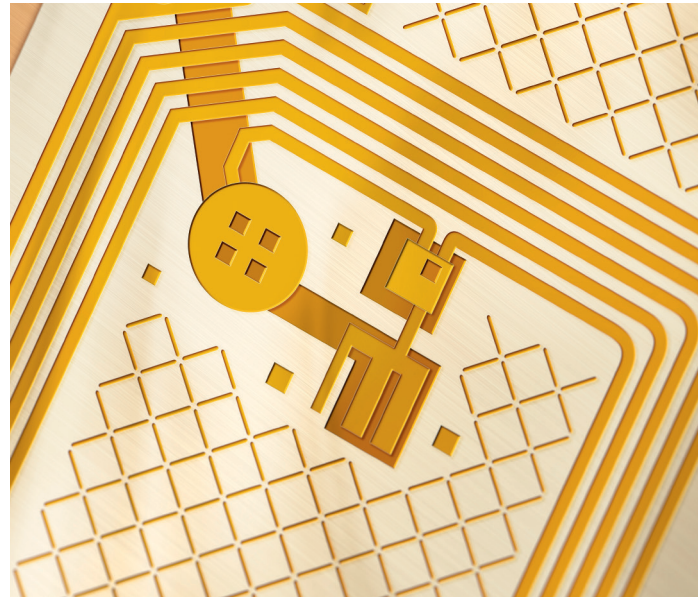
MicroCat

Copper Conductors - Printed and Plated

Printed Conductors. Solid Copper. The Best of Both Worlds.

MacDermid Enthone's **MicroCat** is the only combined printing and plating process utilizing proven technology that can satisfy the demand for high volume advanced circuitry - at a uniquely low cost. MicroCat is an evolution of additive circuitry technology that eliminates critical barriers to the accelerated penetration of RFID. It delivers superior performance and is supported by the worldwide resources that you expect from MacDermid Enthone.

MicroCat is designed to increase productivity by reducing process steps from printing to plating. Manufacturing cost analysis shows significant material and labor savings due to the use of copper rather than silver in this simplified process sequence. The electroless copper conductivity and plating uniformity of the MicroCat process also offers RFID fabricators greater "read distances" than printed conductive inks.



KEY FEATURES

- Simple, 3-step process
- Unique catalytic ink compatible with any flex substrate
- Additive copper deposition for excellent conductivity and uniformity
- Suited for all printing technologies
- Proven production experience, guaranteed global support
- High volume productivity at the lowest cost of ownership



MacDermid Enthone

CIRCUITRY SOLUTIONS

MicroCat

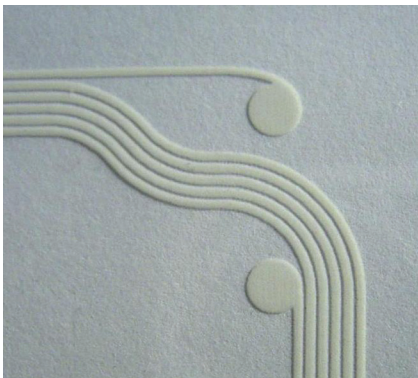
Copper Conductors - Printed and Plated

The Evolution of Additive Circuitry Technology

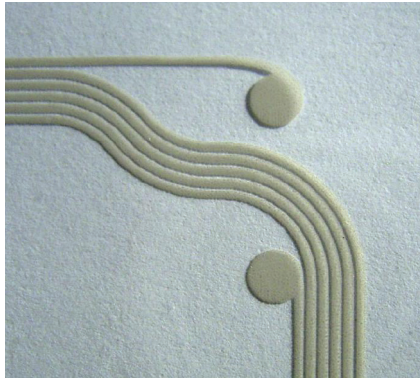
MacDermid Enthone MicroCat is the low cost, high productivity, high performance solution engineered specifically for fabricators of inexpensive circuitry. With MicroCat, the ability to develop advanced circuitry for any application can now be realized.

The flexibility of MicroCat extends beyond just the printed substrate. It provides a high volume solution for many applications and industries including bank cards, energy, inventory tracking, security and wearable electronics. With a unique catalytic ink that can be transferred using any printing technology, MicroCat streamlines the traditional printing and plating process down to only three steps, while delivering superior electrical performance.

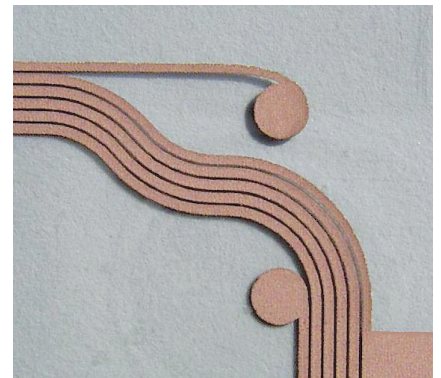
After Printing Catalytic Ink



After Reduction

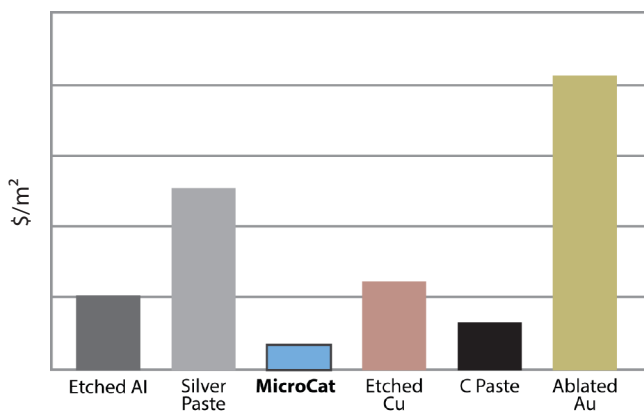


After Copper Plating

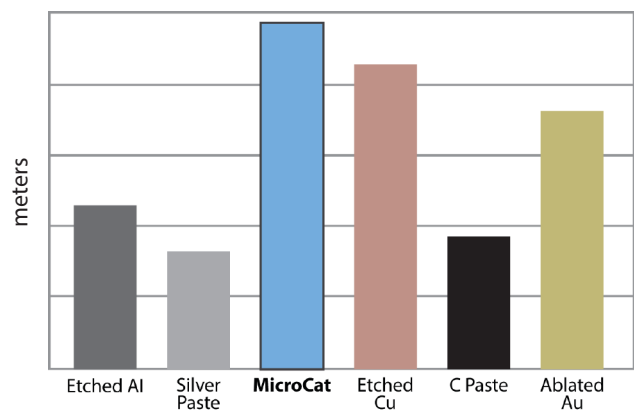


Quantified Value

Cost



Read Distance (13.5mhz tag)



macdermidalpha.com
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MacDermid Enthone is a product brand of MacDermid Alpha Electronics Solutions.