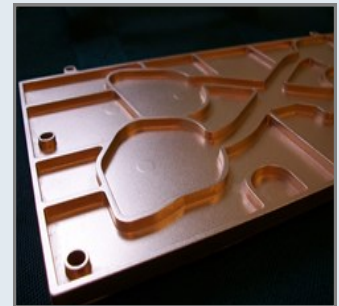


# Plating Capabilities



As Industry leaders, ARC Technologies Inc. is always striving to be on the forefront in EMI Shielding and Absorbing products. As part of those efforts, we are proud to offer ultra-high capacity Electroless Copper plating and our innovative AC<sup>2</sup>ES film plating lines.



## Electroless Plating

Staying ahead of today's technologies, ARC Technologies Inc. has installed a high capacity electroless copper plating line. Our versatile system is designed to deposit a 2-3  $\mu\text{m}$  (80-120  $\mu\text{-inches}$ ) layer of pure, smooth, dense, and uniform copper in one hour. Various stabilizers and components can be used to customize the system to operate successfully for a broad range of processing applications. The line consists of nine, 900 gallon tanks that measure 10' x 8' x 1.5' (3.05 m x 2.44 m x 0.46 m). This capability serves Defense, Automotive, and Consumer Wireless markets.

- ◇ ARC offers polymer systems, injection-molded parts, or cast-to-size solutions that can be electroless copper plated.
- ◇ We offer Plating on Plastics (PoP) for shielding and waveguide applications.
- ◇ We do not use toxic Chromic Acid in our plating process.
- ◇ We have the largest tanks in the North East (US).

---

### Solutions for Interference Control

ARC Technologies Inc. ■ 37 South Hunt Road ■ Amesbury, MA 01913  
978-388-2993 ■ Fax: 978-388-6866 ■ [www.arc-tech.com](http://www.arc-tech.com)

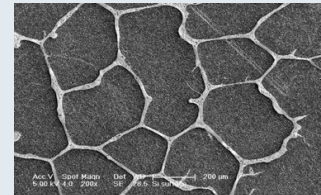


# Plating Capabilities



## AC<sup>2</sup>ES Film Plating

Unlike electroless plating, this is an electrolytic process by which we provide electricity to the film to deposit metal, in this case, copper metal, directly onto the silver that is already on the film. Material off of this line is approximately 300 mm wide by up to 200 meters long.



- ◇ This is roll to roll (reel to reel, R2R) process.
- ◇ Electrolytic process applying voltage to already conductive AC<sup>2</sup>ES Film.
- ◇ The open areas between the wires will not plate with copper.
- ◇ We make product that is 0.1  $\Omega/\square$  (Ohms per square) resistivity.
- ◇ Transparency of plated material ranges between 80%-85% T.
- ◇ Products are available with Silver metal flash or Black overlay on top of the copper metal.

---

### Solutions for Interference Control

ARC Technologies Inc. ■ 37 South Hunt Road ■ Amesbury, MA 01913  
978-388-2993 ■ Fax: 978-388-6866 ■ [www.arc-tech.com](http://www.arc-tech.com)

