

# Sterling

## Immersion Silver Final Finish

### Experts Agree. Silver Is Better And Sterling Is The Best.

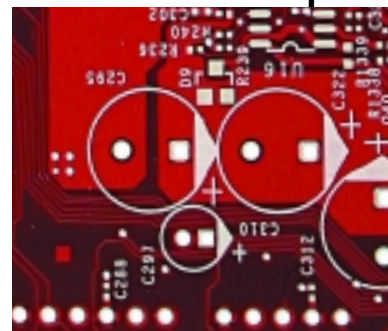
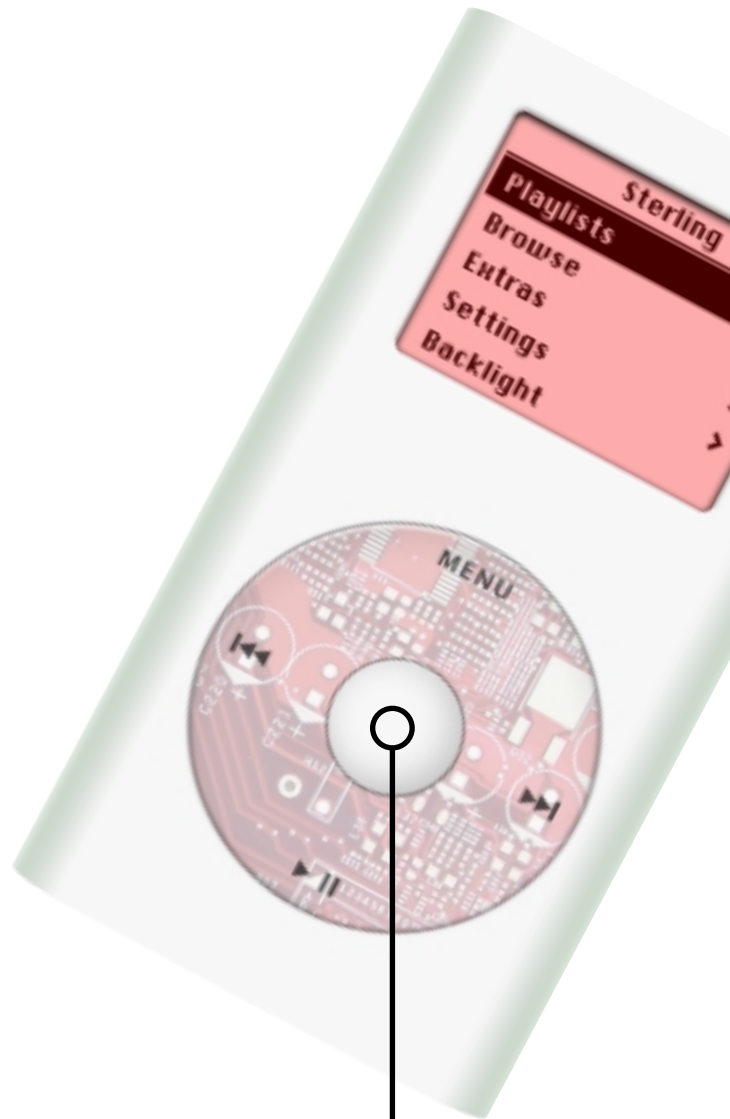
**MacDermid Sterling** is the #1 immersion silver surface finish, specified by hundreds of fabricators, assemblers and OEM's worldwide to provide consistent solderability, low contact resistance, process simplicity, and long shelf life.

**Sterling** is a tarnish-resistant silver finish that provides exceptional solderjoint strength, touchpad functionality, wire bondability, and in-circuit test compatibility. It offers benefits throughout the supply chain: fabricators receive a versatile and flexible solution that can be applied with either horizontal or vertical equipment; assemblers get a durable finish that performs through multiple heat excursions, and high yields due to complete flux and paste compatibility; and OEM's receive uncontested reliability and service life due to the resulting Cu/Sn solder joint. As immersion silver has become the market leading Pb-free alternative to tin/lead finishes, Sterling is what to choose when only the best will do.

For the #1 immersion silver that can handle any final finish requirement, count on the company that says "Yes We Can." MacDermid.

#### Key Features

- The #1 immersion silver final finish
- Specified by fabricators, assemblers and OEM's worldwide
- Exceptional solderjoint strength, touchpad functionality and wire bondability
- Superior conductivity for ultra-high RF applications
- The clear solution for black pad, tin whiskers and exposed copper



**YES WE CAN**<sup>SM</sup>

 **MacDermid**  
Electronics Solutions

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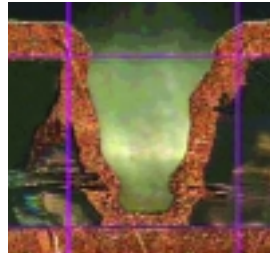
## Immersion Silver Final Finish

### The #1 Immersion Silver For All Final Finish Requirements

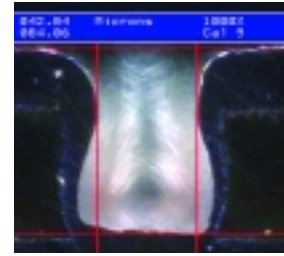
**MacDermid Sterling** is the industry's #1 immersion silver. From automotive to computers, military to communications, it is the choice of OEM's worldwide. Sterling provides highest assembly yields, excellent contact functionality, and predictable solderability with multiple reflows. It is also aluminum wire-bondable, resulting in ultimate assembly flexibility, while its blind microvia plating offers the required technology and reliability levels for complex application.



Sterling consistently delivers strong and durable solder joints at assembly. During soldering, the thin silver finish dissolves entirely into the bulk solder, resulting in a reliable and resilient copper/tin solder joint.



Sterling delivers reliable and consistent silver plating in blind microvias, meeting today's complex technological demands, and enabling maximum utilization of circuit board real estate.



### Sterling Superiority

	Sterling	OSP	ENIG	Tin	HASL
Flatness	Planar	Planar	Planar	Planar	Poor
Solderjoint	Cu/Sn	Cu/Sn	Ni/Sn	Cu/Sn	Cu/Sn
Ease of Use	High	High	Low	Moderate	Moderate
Contact Functionality	Excellent	None	Excellent	Moderate	Moderate
Shelf-Life	12 months	6 months	24 months	6 months	18 months
High Frequency Performance	Excellent	Excellent	Poor	Moderate	Moderate
Pb-Free Challenges	Drop-In	Temperature Sensitive	Brittle Joints	Intermetallic Growth	Contains Lead

**YES WE CAN<sup>SM</sup>**

It takes more than innovative, high performance products and superior technical service to help our customers compete and win in today's global marketplace. It takes a total commitment to understanding their needs and the ability to provide the right solutions—every time.

When success is your only goal, trust the company that says "Yes We Can."

**MacDermid**  
Electronics Solutions

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