

Key Take-Aways from SUR/FIN 2026

High Power Graphite Silver Delivers Huge Cost Savings

Lower silver thickness while protecting against tarnish, friction and wear.

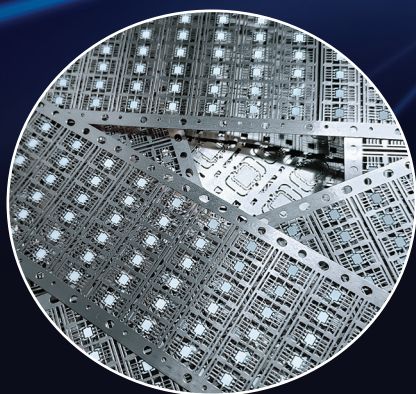
C100 Silver Graphite Dispersion was developed and proven for connectors and other high power components. Unique self-lubricating dispersive technology provides excellent conductivity, and superior resistance to the “big 5”: fretting corrosion, abrasion, oxidation, vibration and high temperatures.

- ▶ 10,000+ cycles without lubrication
- ▶ Low, stable coefficient of friction after EOL tests at 50,000 cycles
- ▶ Low contact resistance: equal to pure silver
- ▶ Cross-compatibility with silver and silver alloys



Only C100 produces the reliable charging cycles and fast charging conditions required for high power connectors.

Twice the Speed, Same Phos Level



NIPHOS 6500 eliminates common, problematic “bottlenecks” on R2R lines, because it plates twice as fast as conventional electrolytic nickel processes while maintaining the same level of phosphorus in the plated layer. NIPHOS 6500 has a phosphorus content of 6 -11 %, with very low internal stress and low susceptibility to cracking. It provides excellent corrosion protection.

NIPHOS 6500 has widespread application. It is an exceptional intermediate layer for hard gold plating, reducing gold thickness and producing significant cost savings. It has shown strong performance in high frequency connectors and sensor applications.

Used on high-stress automotive and industrial components, it increases durability, reduces friction, retards wear, and helps manage heat transfer. It also enhances surface hardness: NIPHOS 6500 has an HV of 550-600.

This Hard Silver Replaces Gold

ARGUNA® 630 GAM fine silver electrolyte deposits thick, bright silver layers for decorative applications. For technical applications, it has excellent electrical, bonding and soldering characteristics and a stable hardness range of 120 HV to 130 HV. It is ideal for high vibration and other mechanical stress environments, and significantly increases mating cycles and contact durability.

A reflection density of up to 1.5 GAM, and high temperature resistance, make it an excellent final finish for LEDs; it is also a high-quality conducting material for medical device and aerospace applications.

- ▶ Operating temperature up to 104°F (40°C)
- ▶ High voltage-compatible
- ▶ Use in continuous lines using flow or spray technologies
- ▶ Suitable for flood or selective plating of strip materials



New Development Line is a Powerful Innovation Resource

Rapid, high-level testing, and expert plating recipe development is now available to every plater. 3-D printed aluminum parts with intricate geometries that need over-finishing with nickel, gold or silver? Hollow tubes, rods and flat panels manufactured from stainless steel? Wave guides? All have proved perfect candidates for what we believe is the country's best resource for expert, independent testing and prototyping.

Can we help with your idea or project? Talk with Senior Technical Services Engineer Al Gruenwald. He manages every development project whether for commercial application, defense or academic application.



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