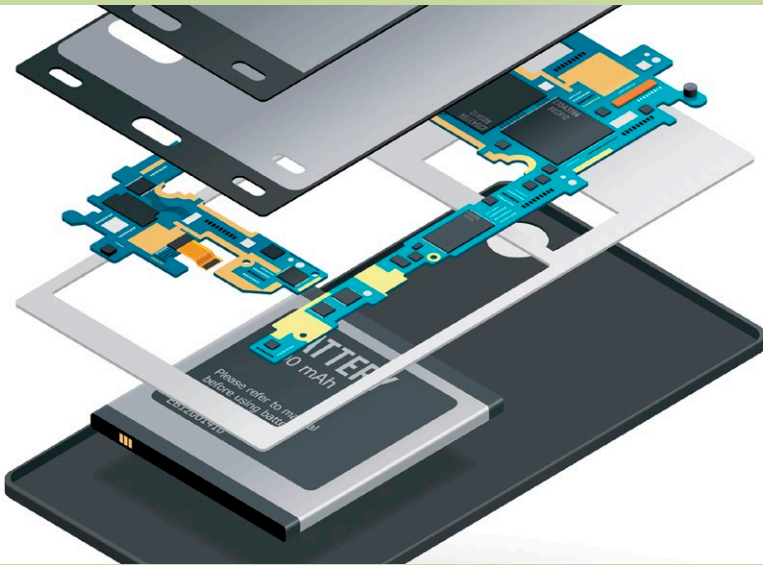


Why is Surface Preparation Important to Plasma Adhesion?

■ A partnership with TriStar gives you a competitive edge.



Our client manufactures the tiny batteries used in hearing aids and cell phones. Although small in size, these devices are actually quite complex in function, and sensitive to outside contaminants.

For best performance, the units must remain totally isolated from moisture, dust and other hazards that can cause the electrodes to corrode. Total encapsulation is the best way to seal and protect the units, and the best way to prepare for encapsulation is to begin with a clean, smooth surface.



Plasma is a three-dimensional treatment that permits any object to be treated on all sides for improved adhesion.

Why is surface preparation such a critical first step?

[Plasma surface modification](#) provides the micro cleaning needed. Without it, devices can become too hydrophobic [non-wettable] for full resin adherence. Plasma imparts the hydrophilic [wetable] properties to promote even flow around the devices for uniform coverage of coatings such as parylene, epoxy, and silicones.

And unlike traditional wet surface preparation, plasma cleans without chemicals, so manufacturers can realize a greener footprint without sacrificing quality.

Simply put, plasma promotes better overall adhesion, and with better adhesion, surface treatments last longer to give products longer service life.

Learn More about Plasma

[Download the Surface Modification white paper](#) to explore how micro cleaning via plasma treatment could improve your product performance. Or [fill out a design application worksheet](#) and we can walk you through the process!

We're ready to put our engineering expertise to work for you from prototype to production.

Engineering | Custom Fabrication | Manufacturing



CJ Composite

- Self-Lubricating
- Low weight | High Strength
- Chemical Resistance
- Direct replacement for Bronze



Ultracomp[®]

- Self-Lubricating
- High Load | Low Speed
- 54,400 PSI Compressive Strength
- Exceptional Resistance to Vibration and Impact



TriSteel[™]

- Self-Lubricating
- High Load | High Speed
- Metal Backed Bearing System
- 100% Lead Free



Rulon[®]

- Self-Lubricating
- Low weight | High Strength
- Low Coefficient of Friction
- Chemically Resistant



Enhanced Materials Division

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- Specialized Primers & Coatings
- Material ID & Selection
- Process Engineering | Analysis & Testing



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