

Low Cost and High Performance

Dreamweaver's purpose is to deliver the lowest cost, highest performance battery separators in the world. This is our long term commitment to you.

First Cells Going Commercial

Dreamweaver has been hard at work assisting our customers in qualifying our material in their cells. Once the full slate of products listed above is available, customers are indicating that Dreamweaver products will be launched in five product lines with five different customers. Included in these product lines are dozens of different cells, including zinc-air batteries, supercapacitors, and lithium ion batteries.



Massive Production Scale Manufacturing Qualified

Dreamweaver recently qualified two products on massive production-scale machines.

- [Silver AR 80L](#) available at 15,000,000 m²/year, while
- Silver 40 available at 50,000,000 m²/year.

Both are shipping to customers now. We expect to have [Silver 25](#), [Silver AR30](#) and [Silver AR40](#) qualified at similar quantities during the third quarter.



Silver in LCO Cells: A Story of Matching Porosity

Polystor has recently completed a study of [Dreamweaver Silver](#) separators in LCO cells. The outcome was interesting: for electrodes with very high density and low ionic conductivity, there was little change in rate performance, cycle life, and self-discharge. But for electrodes with higher porosity and higher ionic conductivity, the rate capability and cycle life improved dramatically, with only a slight penalty in self-discharge. See a [full report here](#).

New Separator for Zinc Air Batteries

After extensive development with a potential customer, Dreamweaver is introducing a product to directly replace Celgard 5550 in zinc air batteries. Compared to 5550, [Dreamweaver Silver AR80 L](#) delivers:

- 28% less thickness
- 37% lower Gurley
- >50% lower internal resistance
- Fast wet out

Silver AR: New Prototypes with Lower ESR

[Silver™ AR](#) has very low ESR (Gurley) and also excellent alkaline resistance. However, some potential customers asked for even lower ESR, and so we produced materials with ESR that is up to 30% lower than the lowest benchmark in the market. These materials are available for confidential evaluation for select development partners. Contact [Laura Bruce](#) for sample requests.

Gold 25 with Improved Strength & Lower ESR

One customer was having trouble processing our Gold 25 separator on their high speed, highly automated processing equipment. Dreamweaver undertook to improve the strength, and at the same time, to reduce the internal resistance. Both of these were accomplished, with a 25% improvement in strength, and a 50% reduction in Gurley air resistance. For details of the properties, please have a look at this brochure: [Dreamweaver Gold](#)

Frequently Asked Questions

Marketing Activities

Upcoming Events

Based on what we have learned from making hundreds of our own cells, and working with customers to make thousands more, we have produced a list of Frequently Asked Questions and answers that can provide expectations of performance in different cells, and also things that might be encountered in cell design. Everything from drying guidelines to amount of electrolyte needed and expectations for performance on safety tests is included. A copy can be found on our [website](#).

2014 is off to a tremendous start. We had a busy 1st Quarter that has carried over to the 2nd Quarter. In the first quarter, the [Dreamweaver website](#) received over 9,000 visits and we sent out over 50 samples to different



customers! We have participated in 5 different conferences so far this year with Brian Morin speaking at 4 of them. We are excited to keep up the active pace. ***We appreciate all the support we continue to receive.***

- [Enerdel Site Visit- May 21st](#)
- [Powersources Conference, Orlando, FL- June 9th – 12th](#)
- [The Battery Show, Novi, MI- September 16th – 18th](#)
- [Batteries 2014, Nice, France- September 24th – 26th](#)
- [InterBattery 2014, Seoul, Korea- October 14th – 16th](#)



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