

### 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.

Based on successes with initial customers, Dreamweaver is focusing heavily on cells for industrial applications. Two cell types are the primary focus, including LiFePo4 cells for e-bikes, power tools, backup power and fork trucks; and supercapacitors for hybrid industrial transportation and grid frequency regulation. Dreamweaver Silver and Silver AR provide the low cost, high rate and extraordinary safety that is valued in these industrial applications

### Lead Acid Prototype

Dreamweaver has produced an [acid resistant](#) version of its nanofiber separator which is designed for testing in advanced lead acid batteries as well as other acid based cells and supercapacitors. For more information please contact [Laura Bruce](#).

Basic Membrane Property	Unit of Measure	Dreamweaver Lead Acid #2
Thickness (12.6 psi)	µm	120
Thickness (25 psi)	µm	112
Gurley (HS)	seconds	80
Porosity	%	75%
Pore Size	µm	
TD Shrinkage @ 160 C	%	
MD Shrinkage @ 160 C	%	
TD Strength	kgf/cm <sup>2</sup>	50
MD Strength	kgf/cm <sup>2</sup>	120
Young's Modulus	kgf/cm <sup>2</sup>	9,000
Melt Integrity	C	200
Puncture Strength	g	
Moisture Content	%	1.1%

### Hot Box Test Results: Dreamweaver Silver and Gold Superior to PP

Commercial lithium iron phosphate 26650 cells were made with three different separators: the standard polypropylene separator (control), Dreamweaver Silver 25 and Dreamweaver Gold 25. The DreamWeaver separator was substituted for the control separator on the production equipment during winding. The results were favorable. Read the full report here: [Hot Box Test](#)

### Dreamweaver opens an office in China

In order to facilitate a speedier introduction to the industrial LFP battery and supercapacitor markets, Dreamweaver has opened an office in China with an experienced battery professional, [Tung-Sheng "Daniel" Chang](#) will be working out of the office at No.1204 Zhenhau Building, Rongui, Shunde, Foshan, Guangdong, China 563605. For inquiries in China, please contact him by clicking [here](#) or call +13802404979

### Batteries and Fuel Cell Seminar

Dreamweaver is co-hosting the 1st annual Batteries and Fuel Cell Seminar located in Greenville, SC. The program is presented by [Shmuel De-Leon](#) and is packed with valuable information. The seminar will take place at [Clemson University's International Center for Automotive Research](#). It includes a tour of the Clemson battery test lab as well as a

### Cooperative Test Program

Last quarter, Dreamweaver launched a program to build cells with our customers electrodes and our separators, and provide the data back to the customer. This is proving to be a valuable practice which is helping to accelerate development with several

### Upcoming Events

- [Batteries and Fuel Cell Seminar](#), Greenville, SC - February 9th -10th
- [NaatBatt Annual Conference](#), Phoenix, AZ
- [32nd Annual International Battery Seminar](#), Ft. Lauderdale, FL - March 9th - 12th

presentation at the [ITIC test track](#). To sign up please visit our [online registration page](#) or contact Laura Bruce by [email](#) or phone at (864) 968-3320.

companies. If you would like for us to provide this testing for your company, please contact Laura Bruce by [email](#) or call (864) 968-3320

### Marketing Activities

We had a busy 4th Quarter that we hope to carry over to the 1st Quarter. In the fourth quarter, the [Dreamweaver website](#) received almost 5,000 visits! We participated in 9 different conferences in 2014 and plan of participating at 10 in 2015. Brian Morin is schedule to speak at 6 of these conferences. If you haven't already please follow us on Twitter [@Dreamweaverintl](#) or follow us on [Facebook](#)! We are excited to keep up the active pace. ***We appreciate all the support we continue to receive.***



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### Frequently Asked Questions

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. A copy can be found on our [website](#).

- [Supercapacitors Europe 2015](#), Berlin, Germany - April 28th - 29th
- [5th Israeli Power Sources](#), Herzelia, Israel - May 20th - 21st
- [AABC](#), Detroit, MI - June 15th - 19th
- [The Battery Show](#), Novi, MI - September 15th - 17th
- [Batteries 2015](#), Nice, France - October 6th - 9th