



AEROCHARGE is a series of ultra-pure carbon aerogels for enhanced performance in lead batteries and are tailored to specific battery application needs. Our technology allows for improved dynamic charge acceptance (DCA), increased cycle life, and sustained charge power in lead batteries.

Through **enerG2's** polymer chemistry platform, advanced carbon aerogels are engineered to fit your unique application. Strategically designed mesoporosity controls sulfation on the negative active material during partial-state-of-charge usage and boosts charge power over the lifetime of the device. Optimized surface functionality allows for easy incorporation of discrete carbon particles into a variety of lead paste formulations, ensuring a smooth transition to the next-generation carbon-enhanced lead battery.

Carbon Aerogel Difference

	CLASSIC	BALANCED	ENHANCED
BET Surface Area (m ² /g)	700	350	1,700
Total Pore Volume (cc/g)	0.70	0.40	1.30
Tap Density (g/cc)	0.55	0.25	0.39
Particle Size, D50 (µm)	50	30	5
Total Metallic Impurities (ppm)	<50	<50	<50
Ash Content (%)	<0.02	<0.02	<0.02

Industry Leading Purity

Patented ultra-pure materials result in minimal parasitic side reactions such as hydrogen gassing.

High Power Performance

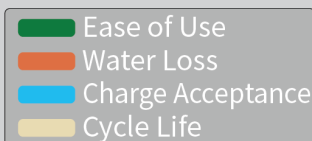
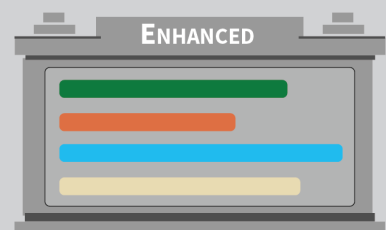
Optimized mesoporosity provides dramatic increases in high pulse power charge efficiency and stable dynamic charge acceptance.

Extended Battery Life

Unique carbon structure controls sulfate growth on negative active material, maximizing partial-state-of-charge cycle life.

Ease-of-Use

Highly engineered particle properties allow for smooth incorporation into a wide range of paste formulations with minimal adjustments.



AeroCharge has been utilized in: Automotive, motive, ESS, e-bike, e-rickshaw, renewables, start/stop, and many other applications.

Request a sample at
www.enerG2.com/AeroCharge

