



## News Release

### **Ashland showcases Soteras™ CCS ceramic coated separator binders at Battery Japan 2018**

*Breakthrough technology contributing to making batteries safer*

Tokyo, Japan, February 26, 2018 – The increased market for electric and hybrid vehicles creates an ever-growing need for safer and longer-lasting batteries. Ashland's solvers have again pushed the boundaries of what's possible to advance the competitiveness of customers and drive safer solutions to reduce range anxiety. Ashland's Soteras™ CCS separator binders for ceramic coatings will be promoted at Battery Japan during February 28 to March 2, 2018 in Tokyo, Japan.

Soteras™ CCS binders employ Ashland's unique two-component cross-linking system to improve thermal and mechanical stability while:

- Minimizing moisture levels to ensure class-leading compatibility with electrolytes
- Ensuring high levels of permeability to allow use at high C-rates
- Providing easy-to-use components that can be easily adopted during manufacturing processes

The Soteras CCS range of binders allow effective ceramic coating of both PE and PP separators to reduce film shrinkage during thermal stress at temperatures in excess of 170°C.

"Ashland is always solving and our passionate team recently commercialized products to ensure greater battery integrity with higher-energy storage. Soteras™ CCS binders demonstrate our continued commitment to the battery industry and to drive safer solutions for consumers," said Suzanne Rowland, group vice president, Industrial Specialties, Ashland.

"Lithium-ion batteries have become the chosen technology for energy storage for electric vehicles. There is an increasing requirement for higher capacities and improved safety and performance," said Dr. Robert Gibbison, global segment leader, Performance Specialties, Ashland. "Soteras™ binders can help cell developers and separator producers achieve these goals."

#### **About Ashland**

Ashland Global Holdings Inc. (NYSE: ASH) is a premier global specialty chemicals company serving customers in a wide range of consumer and industrial markets,

including adhesives, architectural coatings, automotive, construction, energy, food and beverage, personal care and pharmaceutical. At Ashland, we are approximately 6,500 passionate, tenacious solvers – from renowned scientists and research chemists to talented engineers and plant operators – who thrive on developing practical, innovative and elegant solutions to complex problems for customers in more than 100 countries. Visit [ashland.com](http://ashland.com) to learn more.

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