A futuristic battery with a molecular structure overlay. The battery is shown in a close-up, angled view, with a metallic top and a transparent body. Inside, a complex molecular structure is visible, consisting of various colored spheres (red, yellow, blue, green) connected by thin rods. The background is a dark, blue, and green gradient with a glowing, wavy pattern.

SOLVIOLYTE®: SAFE ELECTROLYTES FOR HIGH ENERGY LITHIUM ION BATTERY



High energy density



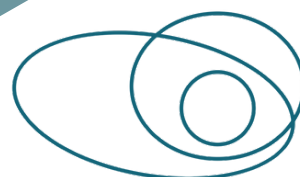
Non-flammable



High performance



Long life time



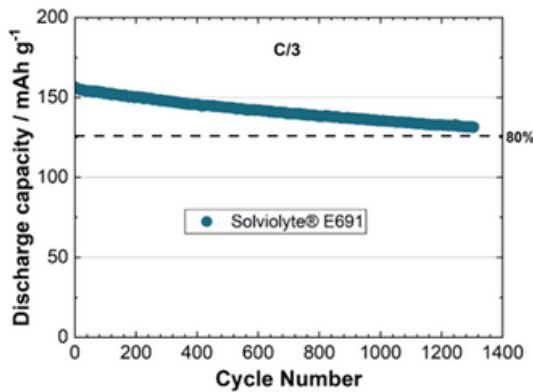
SOLVIONIC

POWERED BY INNOVATION



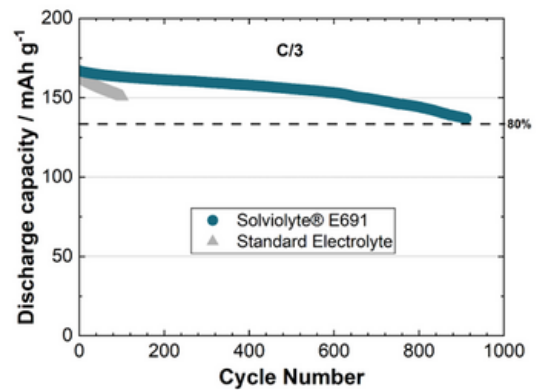
Full cell NMC 622 – Graphite

Temperature 25°C



The NMC622-Graphite cell, paired with the **non-flammable** Solvolyte®E691 electrolyte, delivers exceptional cycling stability at 25°C, **maintaining 84% capacity retention** after 1300 cycles.

Temperature 45°C



At 45°C, cells using Solvolyte® E691 **non-flammable** electrolyte retain 83% capacity at C/3 after 900 cycles, offering significantly **better performance** compared to standard electrolytes, which see a sharp decline after only 150 cycles.

Cell details

Coin cell 2032
NMC622: 3.4 mAh.cm⁻² – Ø = 13 mm
Graphite: 3.8 mAh.cm⁻² – Ø = 14 mm
N/P 1.10
Separator : Glass fiber

Testing conditions

Standard Electrolyte: 1M LiPF₆ in EC:DEC 1:1 (wt.) + 2wt% VC
Formation protocol: 2 cycles at C/20 from 2V to 4.2V (CC)
Cycle life test at C/3 from 2V to 4.2V (CC)
100% DOD

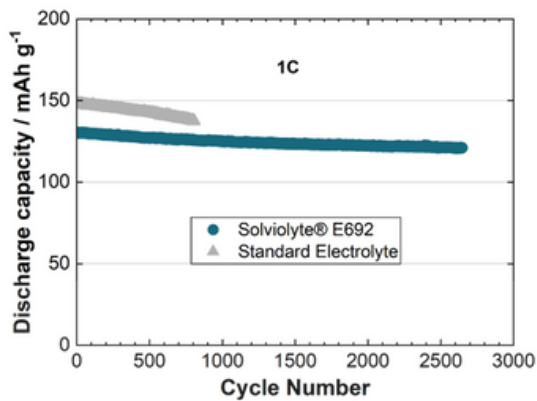
+ Safety

+ Easy scalability

+ High performance

Full cell NMC 811 – Graphite

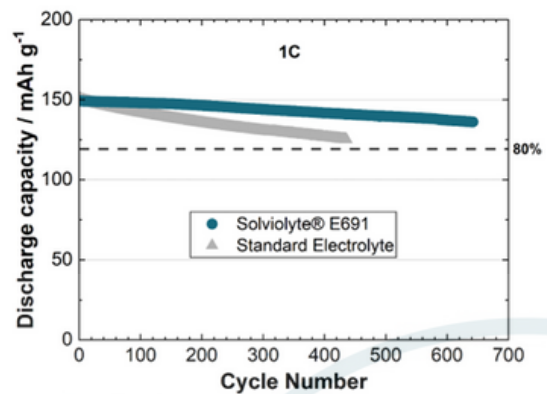
Temperature 25°C



Solvolyte® E692, a **non-flammable** electrolyte, delivers outstanding performance at 25°C, **retaining 93% capacity** after 2600 cycles at 100% Depth of Discharge (DoD) at 1C. Its stability and efficient Li⁺ ion mobility ensure **long-lasting energy** solutions.

Unlike flammable standard electrolytes that degrade quickly, Solvolyte® E692 offers a **safer**, more reliable alternative for **extended battery life**.

Temperature 45°C



Solvolyte® E691 delivers outstanding performance at 45°C, **maintaining 92% capacity retention** at 1C after 600 cycles—over four times the cycle life of standard electrolytes. This demonstrates the **enhanced durability** and **safety** of the **non-flammable** Solvolyte® E691

Cell details

Coin cell 2032
NMC811: 2 mAh.cm⁻² – Ø = 13 mm
Graphite: 2.2 mAh.cm⁻² – Ø = 14 mm
N/P 1.10
Separator : Glass fiber

Testing conditions

Standard Electrolyte: 1M LiPF₆ in EC:DEC 1:1 (wt.) + 2wt% VC
Formation protocol: 2 cycles at C/20 from 3V to 4.2V (CC)
Cycle life test at C/3 from 3V to 4.2V (CC)
100% DOD

+ High stability

+ Wide range of Temperature