CATHODE BINDER & BINDER ADDITIVES

Optimizing High-Energy Density Cathodes with Daikin's VT Binder Additive

The quest for higher energy density cathodes drives innovation in battery technology. As a leader in fluoropolymer-based solutions, Daikin introduces three complementary products to optimize your cathode design:

Improved processability

High energy density

Fast charging

1. **Neoflon VT Binder Additive**: Enables effective processing of nickel-rich active materials and sodium ion battery materials due to increased slurry fluidity, which imparts exceptional flexibility to the electrode. This flexibility allows denser electrodes, contributing to the development of high-capacity cathodes.

Without NEOFLON VT-475:
Gelation

With NEOFLON VT-475:
Improved fluidity

2. **Ready-to-use Binder Formulation**: A full-formulated binder that combines the benefits of the VT additive with ease of use, streamlining your production process and eliminating the need for multiple components.

3. **Binder-TUBALL® SWCNT Dispersion**: A specially designed dispersion that integrates TUBALL® SWCNT into our proprietary binder system, enabling improved electrochemical performance through enhanced electrical conductivity and mechanical strength. With Daikin's advanced SWCNT dispersions, you can minimize the amount of conductive materials required, freeing up space for additional active materials. This optimized balance unlocks unprecedented cathode capacities and paves the way for groundbreaking battery innovations.

These synergistic products empower you to push the limits of cathode performance, unlocking new possibilities for energy-dense battery applications. Leverage Daikin's expertise to elevate your battery design and stay ahead of the curve in the rapidly evolving world of electrification.

Scan for more information.