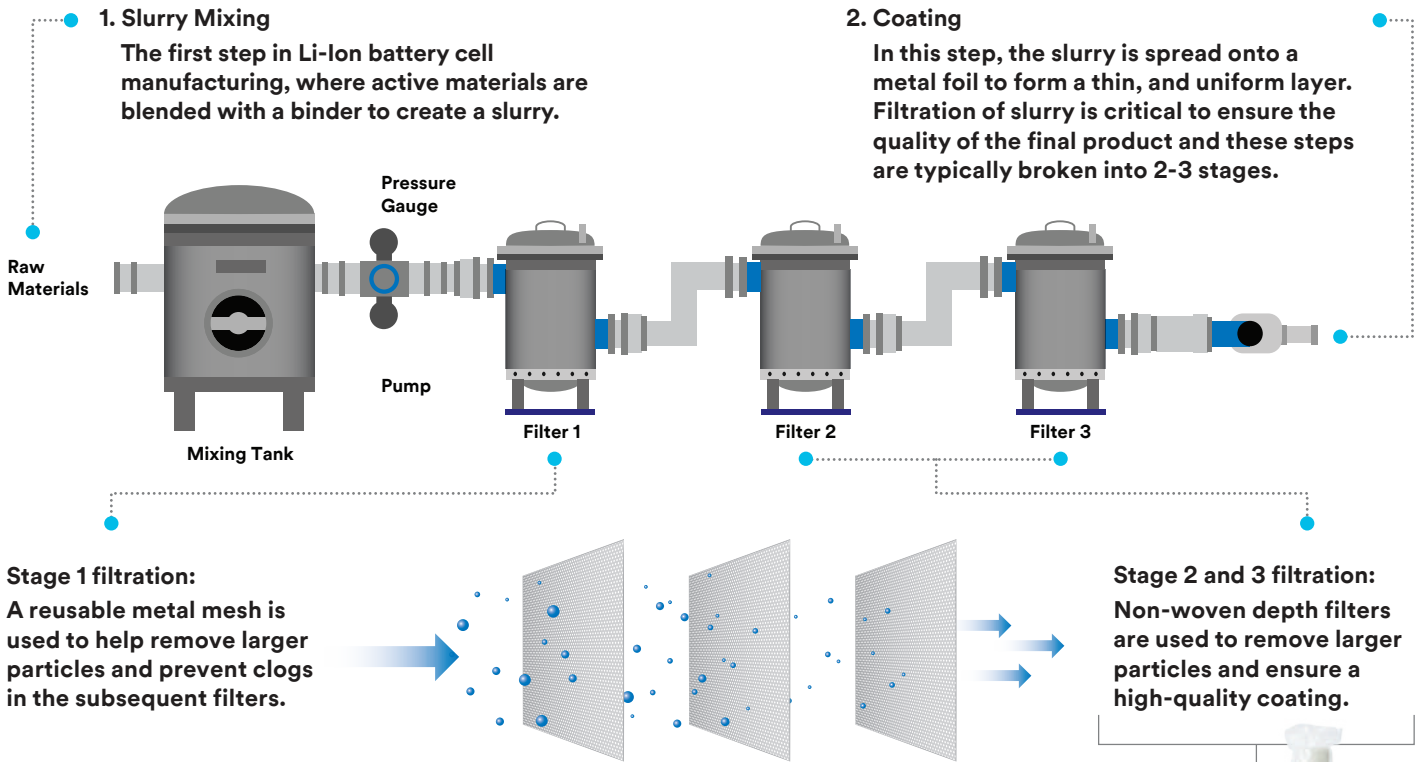



Filtration in Li-Ion Battery Cell Coating

How liquid filtration helps ensure high-quality battery cells

Manufacturing high-quality Li-Ion battery cells requires several key steps, including the critical coating process. Filtration plays a crucial role in this step, helping to remove undesirable large particles and ensures uniformity of the electrode slurries after it's mixed.



Using high-quality filters can help ensure the performance and reliability of battery cells, which is critical for many applications:

- 
Electric vehicles
- 
Portable devices
- 
Renewable energy storage

Without adequate filtration, defects can include:

- ▶ Craters
- ▶ Blisters
- ▶ Gel agglomeration
- ▶ Coating pits
- ▶ Scratches

Filtration can help:

- ▶ Improve consistency
- ▶ Reduce defects
- ▶ Increase yield
- ▶ Lower overall manufacturing cost of ownership
- ▶ Protect equipment



Because they're easy to replace, capsules are often used at this point to reduce the cycle time associated with filter change out and cleaning time, thereby minimizing disruptions.

Learn more or talk to a 3M expert at [3M.co.uk/microelectronics](https://www.3m.co.uk/microelectronics).



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