

Battery Grade CMC

Introduction

Fortune Biotech Sodium CMC is mainly used as binder in water-based anode materials. Proper binder can effectively improve the whole performance of electrode. Ensure uniform contact between active substances, conducting agent and current collector, to boost the completeness of electrode. Sodium CMC as binder ensure the evenly and complete coating of electrode slurry. Can bring higher battery capacity, longer cycle life and lower internal resistance.

Application

- Enhance stability of electrode slurry. Prevent sediment of active substances.
- Binder of anode and cathode.
- As gelling agent for cathode protection.
- High-performance binder for high-capacity silicon anode materials
- Safety, eco-friendly, and low cost.

Functions

- Thickening
- Binding
- Stabilizing
- Emulsifying
- Dispersing
- Deflocculating
- Water retention

Package

25kg per multi -layer kraft paper bag with PE inner bag. Package can be customized as required. Once open it, please use up ASAP.

Storage & Shelf Life

Store in a cool, dry, and ventilated place within a well-sealed container. Shelf life is 24 months. However, as a result of natural degradation process the viscosity of CMC may decrease in time. Therefore, after 12 months from date of manufacturing, the product can still be used safely up to the indicated expiry date, but may need a slight dosage correction in order to give optimum performance in the application.

Main Specification

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Characteristics	White or light yellow free flow powder, odorless, tasteless and non-toxic.
1% Brookfield viscosity	See the below viscosity grade table
Degree of substitution	0.80 - 1.20
Purity	≥99.5%
pH (1% solution)	6.5 - 8.5
Sodium chloride	≤0.3%
Loss on drying	≤8.0%
Fe	≤10ppm
Cu	≤5ppm
Heavy metals (as Pb)	≤5ppm
Insoluble matters	≤20

Viscosity Grade Table		
Model	1% Viscosity (mPa·s)	Recommended Application
FR-BAT200	200 - 800	Low viscosity, suitable for systems with high solid content or requiring lower slurry viscosity.
FR-BAT1000	1000 - 3000	Medium viscosity, a general-purpose model suitable for most graphite anode systems.
FR-BAT3500	3500 - 5500	High viscosity, provides stronger thickening and anti-settling effects, suitable for silicon-based anodes.

Note: Products with different viscosities, degrees of substitution, and particle sizes can be customized according to the specific requirements of customers.