

## Sodium Carboxymethyl Cellulose

### Battery Grade

Sodium Carboxymethyl Cellulose as major bond of anode material in waterborne system has been widely used in battery industry both home and in abroad. The perfect quantity of bond can achieve some advantages like lager call capacity, much cycle life and low inner resistance. With regard to this our company has effectively improved the manufacturing technique of Sodium Carboxymethyl Cellulose upon special performance and product requirements thus develop battery grade Sodium Carboxymethyl Cellulose.

#### Specification

Type	Viscosity (25C, Brookfield Lvtd/30rpm)	Degree of substitution	PH	Moisture %	Ca <sup>++</sup> %	Mg <sup>++</sup> %	Fe <sup>+++</sup> %
	1%, mPas						
BT-100	10-100	0.95-1.20	6.5-8.0	≤10	≤0.02	≤0.02	≤0.02
BT-500	100-1000	0.95-1.20					
BT-1000	1000-2000	0.95-1.20					
BT-2000	2000-3000	0.95-1.20					
BT-3000	3000-4000	0.95-1.20					

#### Battery Grade product features

1. Excellent hydrophilicity and solubility, it can be completely dissolved in water without free fibers and foreign materials.
2. Good uniformity of substitution, stable viscosity and high adhesive force.
3. High purity and low metal content.
4. Good compatibility, it can be mixed with various materials like SBR Latex.

#### CMC'S function as battery bond:

1. Agglomerate and protect active substance.
2. Stabilize the structure of pole shoe.
3. Prevent precipitation of active substance.
4. Improve charge-discharge performance.

Battery Grade product: BT-500, BT-1000, BT-2000.

BT-500 is mainly used in Nickel-Hydrogen or Chromium-Nickel battery.

BT-1000/2000 is mainly used in lithium battery.